



HIGH DEFINITION ANALOGUE DVR

MAIN USER'S MANUAL

V1.0 04.2015

Welcome

Thank you for purchasing the our
High Definition (over coax cable) Analogue DVR.

This user's manual is designed to be a reference tool for
the operation of your system.

Do not worry; you do not have to read this entire
manual to be up and running. There are quick setup
instructions in **Chapter 1**, which will show you how to
setup the connections to the DVR correctly and how to
setup a remote monitoring connection.

Here you can find information about the corresponding
DVR's features and functions, as well as a detailed menu
tree.

Before installation and operation please read the
following safeguards and warnings carefully!

BEFORE YOU BEGIN

Important Safeguards and Warnings



WARNING – Do not open DVR's casing whilst power is provided to it. By doing so you will be exposed to live electricity, which could cause injury or death. You may also inadvertently cause irreversible damage to the device itself. If there is a problem with the device please take it to a professional electrical service engineer to repair.

1 . Electrical safety

- All installation and operation should conform to your local electrical safety codes.
- We assume no liability or responsibility for any fires or electrical shock caused by improper handling or installation.

2 . Transportation security

- Heavy stress, violent vibration or water splash should be avoided during transportation, storage and installation.

3 . Installation

- Keep upright. Handle with care.
- Do not apply power to the DVR before completing installation.
- Do not place objects on top of the DVR

4 . Qualified engineers needed

- All examination and repair work should be done by qualified service engineers.
- We are not liable for any problems caused by unauthorised modifications or attempted repair.

5 . Environment

- The DVR should be installed in a cool, dry place away from direct sunlight and inflammable or explosive substances, etc.
- This product should be transported, stored and operated in an environment ranging from 0°C to 55 °C.

6. Accessories

- Be sure to use all the accessories available that come with the HDA DVR.
- Before installation, please open the package and check all the components are included.
- If you are missing any components please contact your direct supplier/dealer.

7. Lithium battery

- Improper battery use may result in fire, explosion, or personal injury.
- When replacing the battery, please make sure you use the same model. (CR2032 Motherboard battery).

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1 FEATURES AND QUICK SETUP

1.1 Product Overview

This product is designed specifically for the use in the field of high definition video surveillance and adopts H.264 video compression, hard disk recording, TCP/IP transmission and a Linux based OS in addition to some of the most advanced technology in the information technology industry. These elements help to produce a more stable, reliable and higher quality video image. The products supports synchronised video, audio recording, playback, monitoring and the synchronisation of audio and video. The products support advanced control technology and strong network data transmission capacity.

1.2 Features

Real-time monitoring

Composite video signal interface and support TV, VGA or HDMI output simultaneously.

Compression function

Uses H.264 video compression standard and G.711 audio compression standard and has high definition, low code rate of the video coding to decrease the amount of data to save to HDD storage.

Recording function

Supports timing, alarm alerts, motion detection, SATA hard and local hard disks, DVR data backup and network backup.

Video playback function

You can search videos, within the local network, by using the playback interface. As well as this it supports multiple videos playback, fast playing, slow playing and frame-by-frame playback. Video playback can be displayed the exact time of the incident using a graphical timeline to allow you to search for event footage much more efficiently.

Camera control and alarm

Remotely installed cameras can be controlled and various alarm devices can be connected to ensure that you know when an event has been detected. The DVR integrates Dynamic detection, video loss, video block, multiple alarm output and scene lighting control into its controller options.

Communication Interface

Equipped with USB 2.0 high-speed interface and an ESATA interface to allow for external video backup devices. An RS485 interface is provided as alarm sensor inputs and also PTZ control

Network functions

Supports:

- TCP / IP
- UDP
- RTP / RTSP
- DHCP
- PPPOE
- DDNS
- NTP

Also supports real-time network monitoring, video playback, control, and management functions. The built-in WEB Server will allow you to directly access the DVR through a web browser.

Mode of operation

You can operate by the DVR's front panel or using a mouse. A simple, intuitive graphical interface is provided for intuitive operation.

1.3 Installation

1.3.1 Unpacking Inspection

When you receive the product please check that all items are present according to the packing list on the reverse of the box. Also check for any external damage to the casing that could have been caused during transit.

1.3.2 Wiring Installation

Prepare for installation

Prepare your cameras, TV/display monitor, video cables, network cables, the mouse, and power cables on a large clean flat surface.

1.4 Quick Connection Setup



NOTE: BEFORE INSTALLING ANYTHING WE STRONGLY RECOMMEND THAT YOU CONNECT YOUR CAMERAS TO YOUR DVR AND TEST YOUR SYSTEM FIRST.



NOTE: WE CHECK EVERYTHING TO MAKE SURE IT IS WORKING WHEN IT LEAVES US BUT OCCASIONALLY THINGS FAIL AND IT IS BETTER TO KNOW NOW THAN AFTER YOU HAVE FITTED EVERYTHING!

1. Place the DVR on a flat horizontal position and connect your cameras to the video input on the rear of the DVR.
2. Connect your TV/ display monitor to the video output on the rear of the DVR.
3. Connect the network cable to the RJ45 socket on the rear of the DVR then connect the other end of the cable to a spare socket on the router.
4. Connect the Mouse to the USB interface found in either the front or rear panels.
5. Connect your DVR a power outlet and switch on the power.

Caution

For an external alarm device or a PTZ, please refer to the relevant instructions. Connect the power line after all lines connected correctly.

1.4.1 Quick Setup Diagram

BEFORE INSTALLING ANYTHING WE STRONGLY RECOMMEND THAT YOU CONNECT YOUR CAMERAS TO YOUR DVR AND TEST YOUR SYSTEM FIRST.

WE CHECK EVERYTHING TO MAKE SURE IT IS WORKING WHEN IT LEAVES US BUT OCCASIONALLY THINGS FAIL AND IT IS BETTER TO KNOW NOW THAN AFTER YOU HAVE FITTED EVERYTHING!

1. **Connecting your cameras:** Your Cameras have 2 plugs attached, one is a BNC connector (for the video) the other is for power. Connect these plugs into the sockets on the end of one of the cables included in the kit.
2. **Connecting your DVR:** At the other end of the cable there are two plugs, these connect your camera to the DVR and also to the power supply. You will also need to connect your DVR to a TV or monitor. We have included a HDMI cable but you can also use the RCA (Video Out) socket or the VGA Socket on the back of the DVR.
3. **Switch on:** Once you have connected all the cables successfully connect the DVR & Camera power leads to a power outlet. Switch on your TV and select the HDMI socket you have DVR connected to.

QUICK SET UP GUIDE



Power Adaptor



3.



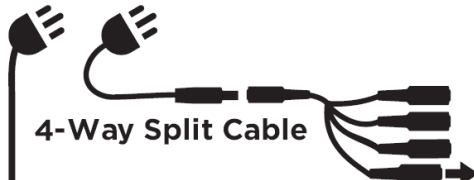
Camera

Power Connector



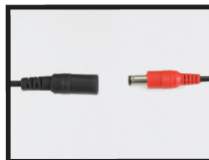
BNC Connector

1.



4-Way Split Cable

Power Connector



This connects your camera to the power supply

Output to TV or Monitor



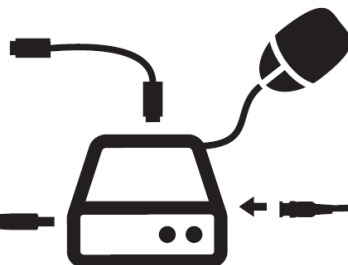
You can connect your system to a HD TV using a HDMI cable, you can also connect them together using an RCA lead, or to a monitor using a VGA lead.

2.

(We recommend you keep your cables coiled whilst you test your system)



DVR Power



Connect the mouse to the USB socket

BNC Connector to DVR



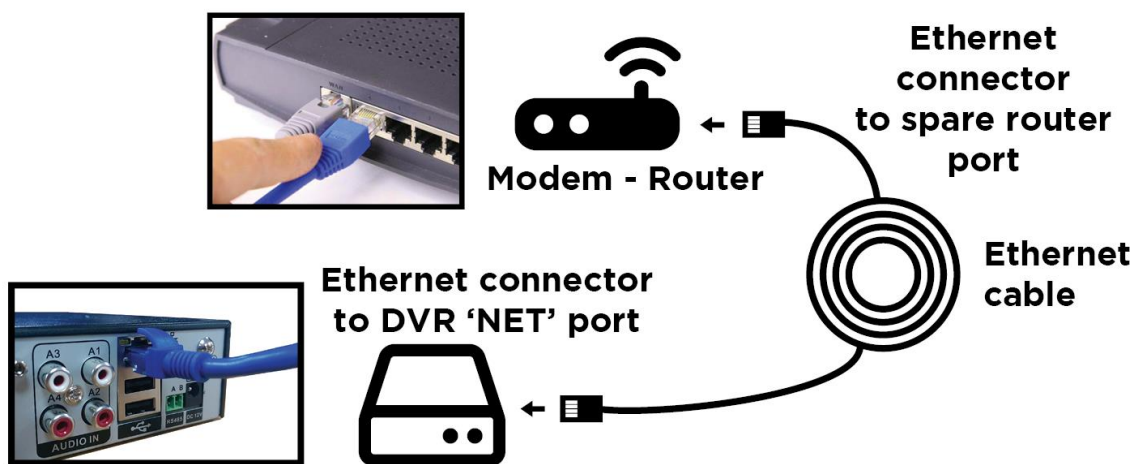
This connects your camera to the DVR

1.5 Smart Phone Setup for Live View & Remote Playback

For the convenience of monitoring your HDA CCTV security system on the move via your smart phone we have provided a quick and simple remote connection setup service. Please follow the steps below closely to successfully setup the connection for live view and remote playback. See next page for step-by-step setup instructions.

IMPORTANT: Please connect DVR to router/modem to access the Internet.

Connect the Ethernet cable into the 'Net' port on the rear of the device, then connect the other end into one of the spare ports on your modem-router, as shown here:



Remote connection to view your DVR via a mobile smart device.

1. Download 'Nitro' app to your smartphone

Scan QR codes here to download the app from either iTunes or Google Play stores depending on your phone's operating system.



ANDROID APP



iOS (APPLE) APP

2. Launch app

Select 'Local Login' to add device. To add device select the '+' symbol.

Select '**SerialNum**' tab to view P2P setup. See image to the right.

Give you device a identifying name.



4G 12:20 74%

AddDevice OK

IP SerialNum

Device Name: DVR

SerialNum: Serial Num

Port: DMZPortOptional

Username: admin

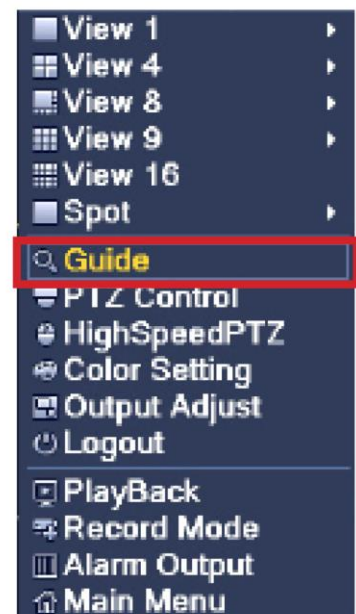
Password: Password



3. Open 'Guide' setup on DVR

Right click mouse button on live view screen. Select '**Guide**' option from the list (highlighted by the red box in the image to the right)

Follow guide until it displays the unique SN (serial number) for the DVR.



4. Use smart device to scan SN QR code

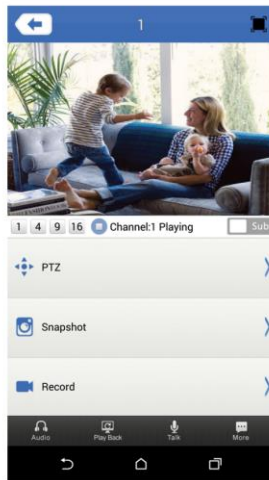
Device Name:	DVR
SerialNum:	Serial Num
Port:	DMZPortOptional
Username:	admin
Password:	Password

Select this to bring up QR scanner



After successful scan the details of the device will be filled in, select 'OK'.

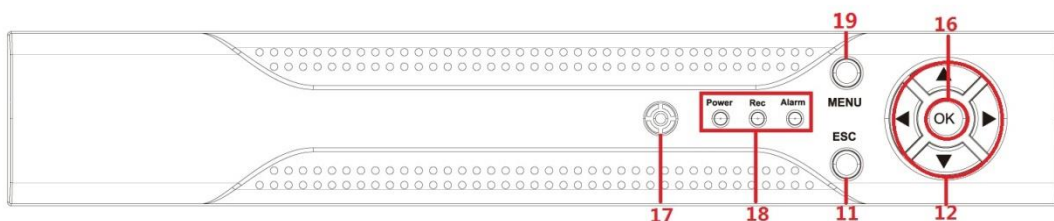
A device list will appear and show the added device. Select device and wait for login to finish. Select Camera you wish to view. **Setup is now complete.**



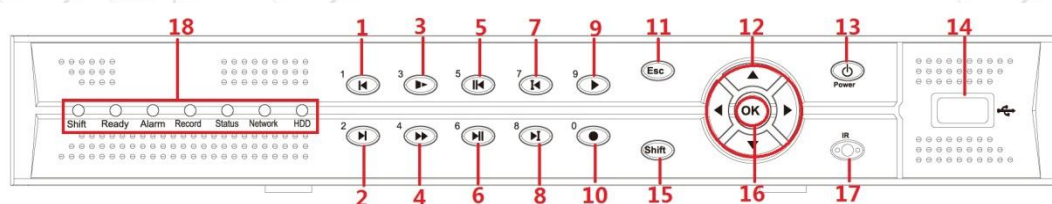
1.6 Front Panel Operation

Please note: Front panel configuration and designs may differ due to continued development of our products to achieve a greater user experience. Use the diagrams and charts below as general references to how to operate the function keys/understand indicator lights on the front panel.

1.6.1 HDA DVR without Alarm inputs/outputs



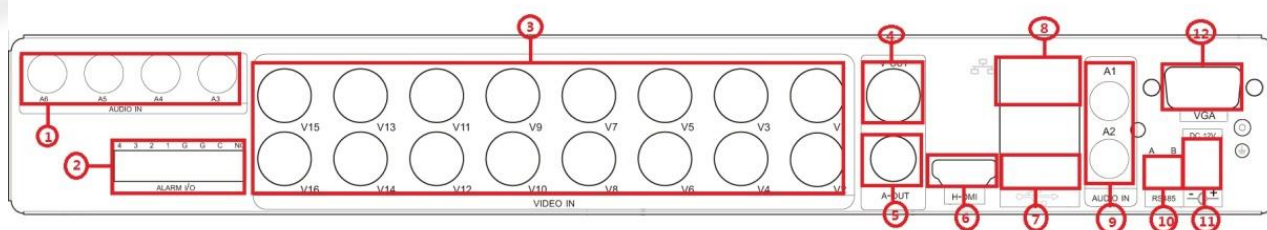
1.6.2 HDA DVR with Alarm Inputs



No.	Function	No.	Function
1	Play the previous file	13	Power switch
2	Play the next file	14	USB interface
3	Slow play	15	Function switch
4	Play fast	16	Confirm
5	Pause playback	17	Remote control receiver
6	Pause	18	Shift Indicator
7	Play previous frame		Systems running indicator
8	Play next frame		Alarm indicator
9	Play the file		Record indicator
10	Control the record		External operation indicator
11	Cancel		Network indicator
12	Direction Control		HDD indicator
		19	Main menu

1.7 Rear Panel

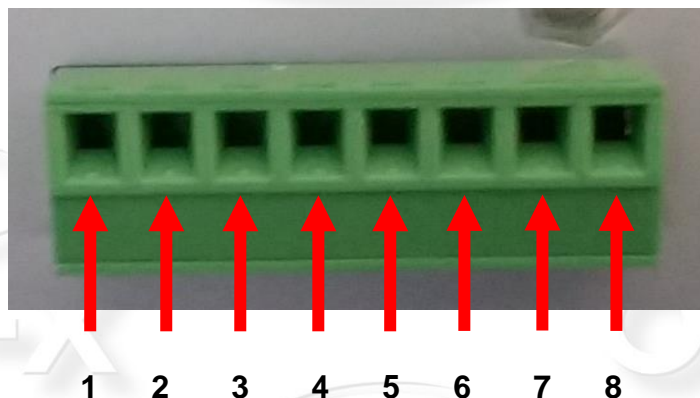
Please note: Rear panel diagram below may differ from the product you are using. Please only use as a general reference.



No.	Function	No.	Function
1	Audio input	7	USB Port
2	Alarm input	8	Network port (Ethernet)
3	Video input (BNC)	9	Audio input
4	Video output	10	RS485
5	Audio output	11	Power (Power adapter input)
6	HDMI port	12	VGA Port (Display port)

1.8 Alarm Inputs/Output (only available on specific models)

The Alarm Input/output ports are labelled on the rear panel as 'Alarm I/O'. If you have an alarm sensor you wish to connect to the DVR to increase the effectiveness of the CCTV system, you can connect them to the RS485 connectors at the back. See the diagram below on how to connect your sensor to the DVR:



1 = Alarm Input 1
2 = Alarm Input 2
3 = Alarm Input 3
4 = Alarm Input 4
5 = Ground

6 = RS232 to send and receive
7 = RS485 interface
8 = RS485 interface

1.9 The Mouse

The mouse is used to operate all aspects DVR.

Right mouse click is used to:

- Open up a new menu in the real-time monitoring screen.
- Exit the current screen without saving.

Left click is used to:

- Enter the desired menu or the main screen.
- Select menu options.
- Select/unselect the checkboxes.
- When controlling a PTZ camera.

Double Click is used to:

- Play video.
- Make selected camera full screen or to exit full screen mode.

Scrolling wheel is used to:

- Control the zoom function of the PTZ cameras.

Mouse Drag can be used to select:

- Area for facial detection.
- Areas to block (for motion detection).
- Select zooming function of PTZ control.

2 OPERATIONS GUIDE

Note: The button is grayed means did not support.

2.1 Turn on

Plug in the power supply and turn on the power from the mains supply. The power supply indicator light will illuminate; indicating that there is power being provided to the video recorder. After the startup booting sequence you will hear a beep. The first part of the user interface that will appear is the default multiple-window video output mode. If the startup time is within the setup video footage recording time, the scheduled video recording function will start up automatically. If the video indicator light of corresponding channel is illuminated then the DVR is working normally.

Note: Power supply demands: 220V±10% /50Hz.

2.2 Turn off

There are two methods to turn off the DVR. Entering **[main menu]:** and choosing **[turn off]:** in the **[turn off the system]:** option, which is called the 'Soft switch'. Pressing the power supply switch is called the 'Hard switch'.

- 1. Auto resume after power failure:** if the DVR is shut down under an abnormal situation (e.g. power cut), it will automatically backup the video being recorded before the shutdown and then resume its previous working status once the device has powered back up.
- 2. Replacing the hard disk:** before replacing the hard disk, the power supply switch in the real panel must be turned off.
- 3. Replacing the battery:** Before replacing the battery, the system setting information must be saved and the power supply switch in the real panel must be turned off. The DVR uses a button type battery, which is attached to the main motherboard inside the case. The system time must be checked regularly. If the time is not correct you must replace the battery, we recommend replacing the battery every year and using the same battery type.

Note: The setting information must be saved before replacing the battery otherwise information will lost.

2.3 System Login

When the DVR boots up, the user must first login before being able to operate the system normally and change settings. The login function is formostly a security measure to prevent unorthorised user access to main functions of the device. What it also allows is a method to differenciate between the registered users on the system by the level of security access to certain allocated permissions/allowances to each user. The default user names are '**admin**' and '**default**'. These names have no password, but you can allocate passwords to them using the '**Accounts**' menu (See chapter 2.5.2). 'Admin' is the top login access user name; the default permissions are preview and video playback. The user password can be changed, while their permissions cannot be revised. The user 'default' is the default login user whose permission can be revised but not its password.

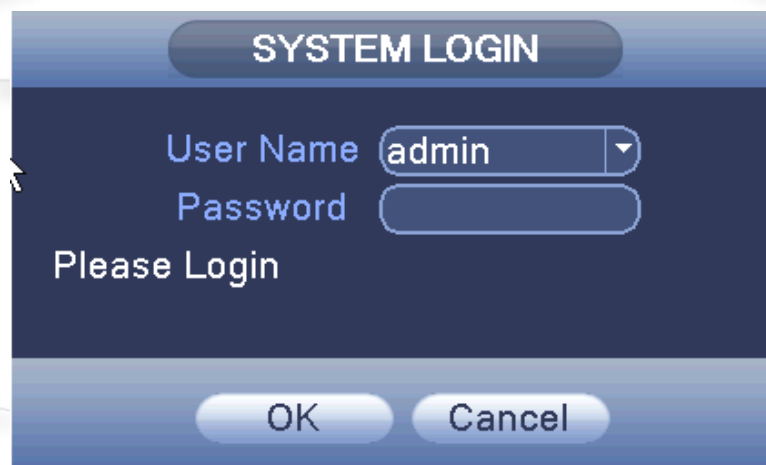


Figure 2.1 Login

Password protection: If the password is inputted incorrectly three times in a row, the alarm will be triggered. If the password is inputted incorrectly five times, the account will be locked. The account will unlock automatically through rebooting the device after 30 minutes.

For your system security, please modify your password after first login.

2.4 Preview: Multi tiled live view interface

You can right click the mouse to bring up the desktop shortcut menu (see chapter 2.5 for more information) and be able to customise the layout of the multi tiled live view interface.

The system date, time and channel name are shown in each viewing window. The surveillance video and the alarm status are shown in each window.

1		Recording status	3		Video loss
2		Motion detect	4		Camera lock

Table 2.1 Preview icon

2.5 Desktop shortcut menu

In preview mode you can right click mouse to view the desktop shortcut menu, see Figure 2.2. The menu includes: **Main Menu**, **Record Mode**, **Playback**, **PTZ Control**, **High Speed PTZ**, **Alarm Output**, **Color Setting**, **Output Adjust**, **Logout**, **Full Screen (exit)**.

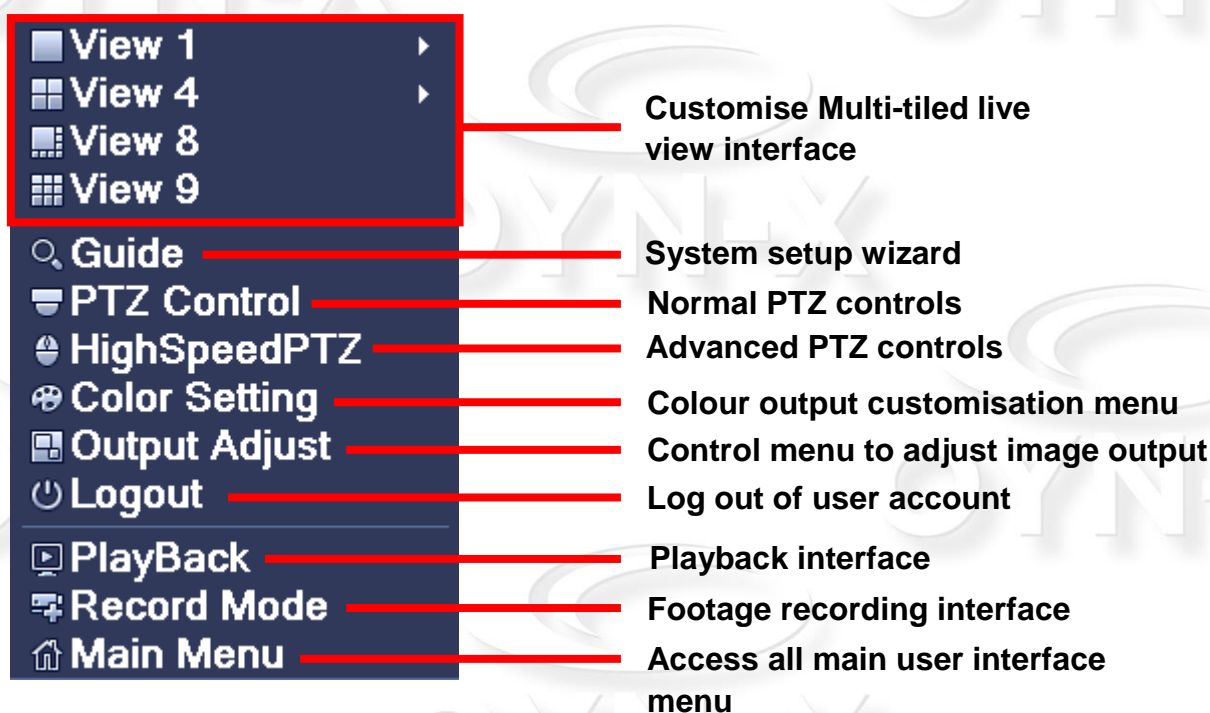


Figure 2.2 shortcut menu

2.5.1 Boot wizard: Guide

This option on the desktop shortcut interface is a quick setup wizard, which will help you to setup the basic operations and to configure the parameters on the system. These parameters include the boot wizard, two-dimensional code and digital channel configuration, click “Next” to enter the digital channel configuration wizard.

2.5.2 Boot wizard:

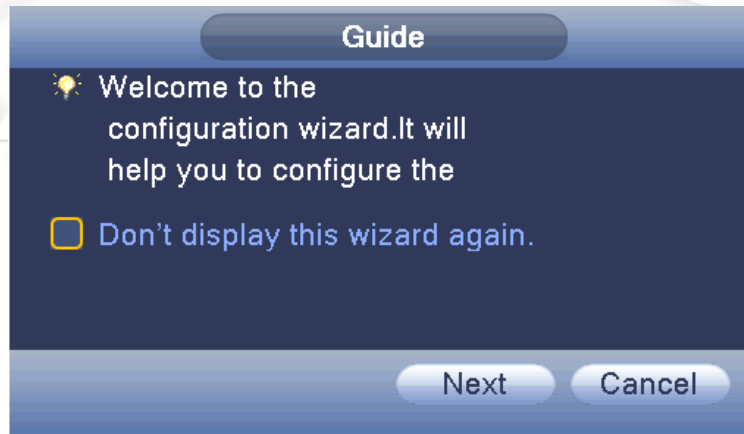


Figure 2.4 Boot wizard interface

- **[Cloud Services Enable]:** ☒: when this box is checked it indicates the cloud services are enabled.
- **[Do not Note]:** ☐: select the highlighted box ☒ when shown after reboot. The system will no longer automatically pop up the boot wizard.
- **[Next]:** enter the digital channel configuration of the wizard interface.
- **[Cancel]:** to save the settings and exit this screen wizard interface.

Click 'Next' on the figure 2.4, will pop up QR code, and then click next to pop up mode selection

QR Code:

Scan these codes with your mobile smart device when they appear on the monitor, to download the remote monitoring & surveillance apps.

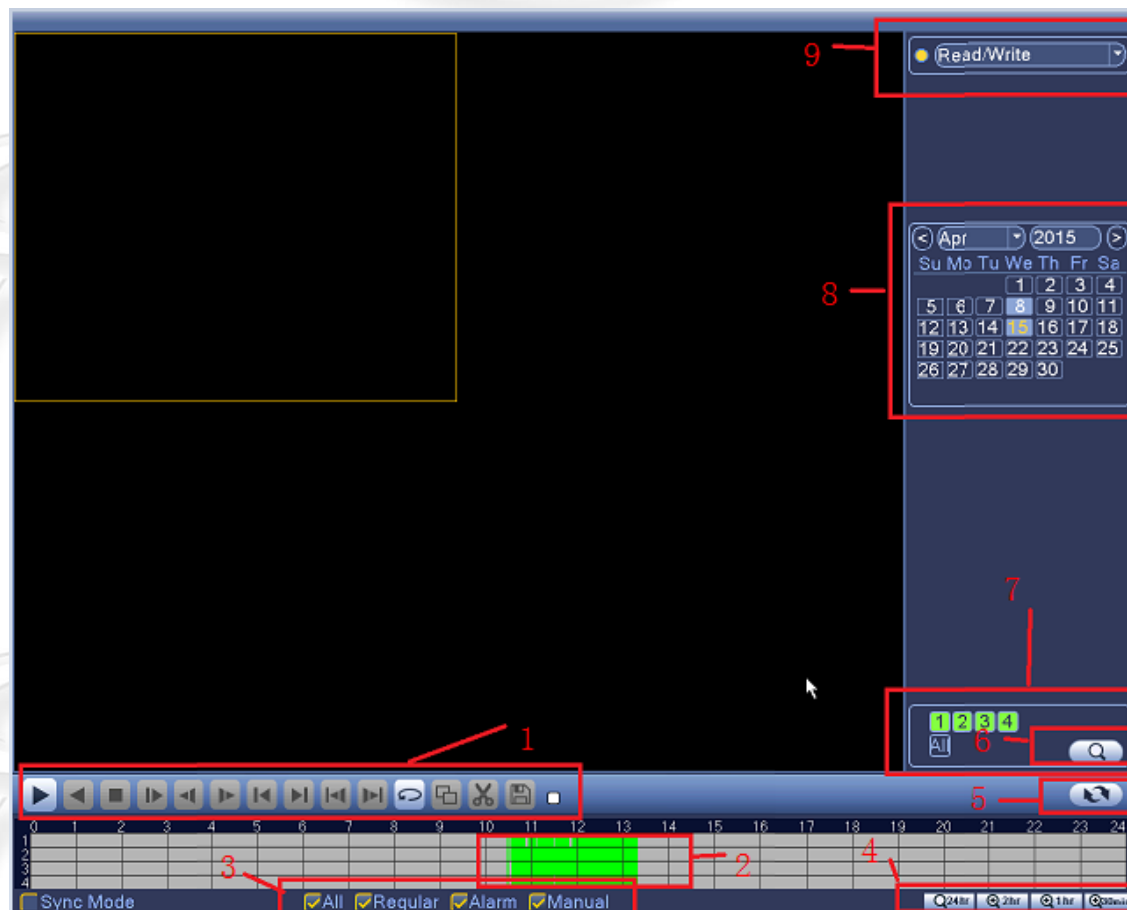


Figure 2.5 QR code interface

2.5.3 Playback

There are two methods for you to play the video files recorded to the hard disk; either through the shortcut menu or via: **Main menu>Record->Playback**.

Note: The default hard disk that saves the video files must be set as either read-write or read-only state.



- 1 – Playback control
- 2 – Time display
- 3 – Synchronise playback
- 4 – Video type
- 5 – Time schedule options
- 6 – Search by time/switch mode
- 7 – File attributes
- 8 – Listed files
- 9 – Search by time

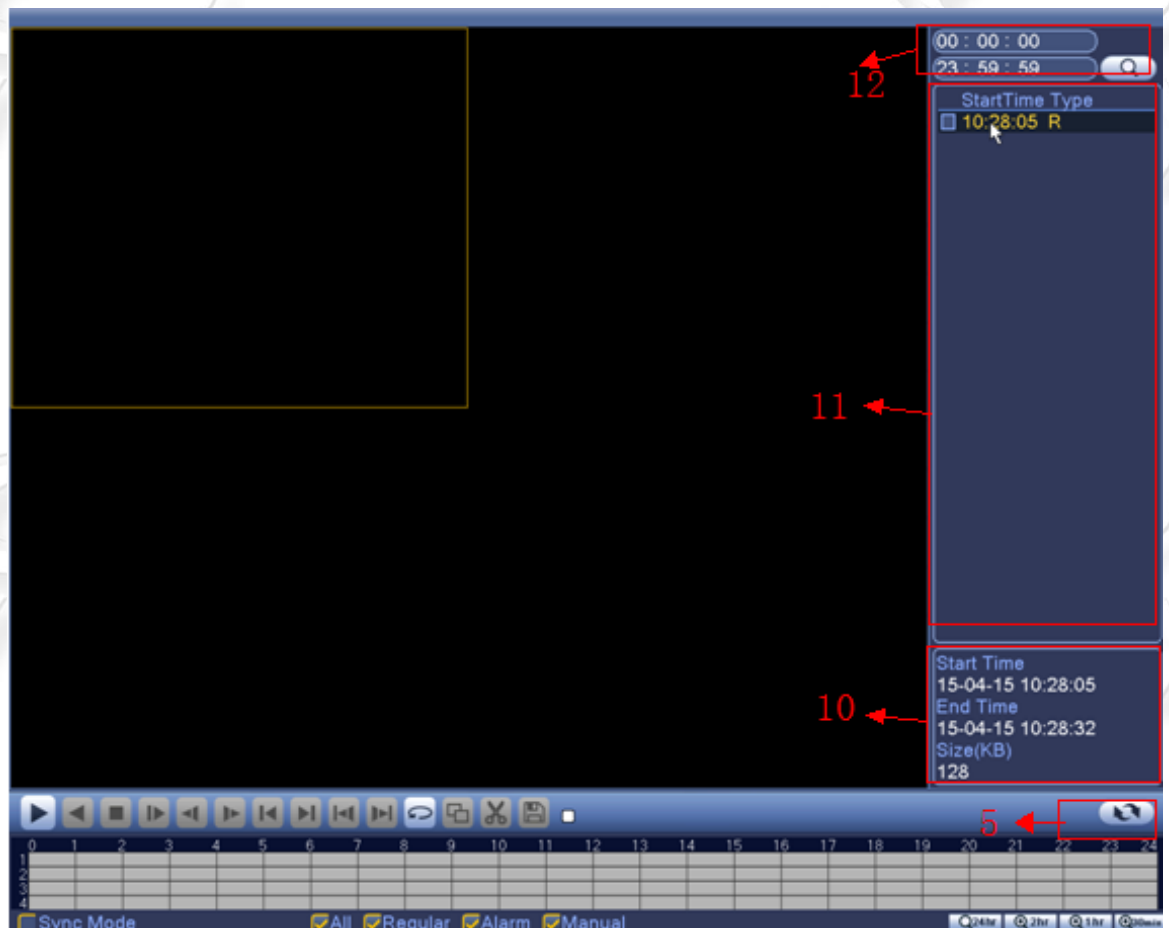


Figure 2.9 Playback

- 9** – Search by time
- 10** – Search by storage location
- 11** – Search by date
- 12** – Search by channel

[Listed files]: Look up the listed files that are in accordance with the search criteria.

[File Attributes]: Look up the found file information.

[Playback control]: See details in the chart below:












Button	Function	Button	Function
	Play/Pause		Backward play
	Slow play		Fast Rewind
	Previous frame		Next frame
	Previous file		Next file
	Loop		Full screen
	Edit		Start / End Clip
	Clip video backup		

Table 2.2 Playback control key

Note: to play footage using the frame by frame playback mode, you need to firstly pause playback.

[Operation tips]: message explains the function of the key that cursor placed over the top of.

Special functions:

Local zoom: To be able to digitally zoom in to the video image when the system is in the single-window/full-screen playback mode, you can drag your mouse on the screen to select a section of it and then left click mouse to zoom in. You can right click mouse to exit the zoom.

Note: The playback channel will fail to display video footage and instead show a red 'X' when you go over the maximum resolution of the current video channel.

2.5.4 Record controls

Please check current channel status: ○ this indicates it has not been set to the

recording status, ● means it has been set to the recording status.

You can use the desktop shortcut menu or click **[Main Menu]: > [Recording Function]: > [Recording Set]:** to enter the recording control interface.



Figure 2.10 record control

[Schedule]: Record according to the configuration.

[Manual]: Click the 'All' button and the according channel is recording no matter the channel in any state.

[Stop]: Click the 'Stop' button and the according channel stops recording no matter what state the channel is in.

2.5.5 Alarm output

You can use desktop shortcut menu or click **[Main Menu]: > [Alarm Function]: > [Alarm Output]:** to enter the alarm output interface.

You can control each channel's alarm output state within this menu section. In the 'Status' row; ☒ means that the channel's alarm output has been set to active.



Figure 2.11 alarm output

[Schedule]: When the ☐ button is highlighted the alarm output function is only active within the specified/configured time frames during the week.

[Manual]: When the button is highlighted the alarm output feature will always be active.

[Stop]: regardless of what state the system is setup the alarm output feature will not function when these buttons are selected.

2.5.6 PTZ control

This interface will allow the user to control a PTZ camera that is connected directly to the recording device.

The functions within the interface include: PTZ direction control, step, zoom, focus, iris, and setup operation, patrol between spots, trail patrol, boundary scan, assistant switch, light switch, level rotation, etc.

Note:

1. To correctly connect the PTZ camera to the DVR the Decoder A (B) line needs to connect with the DVR A (B) line.
2. Click **[Main Menu]: > [System Configuration]: > [PTZ setup]:** to set the PTZ parameters.
3. The PTZ functions are decided by the PTZ protocols.

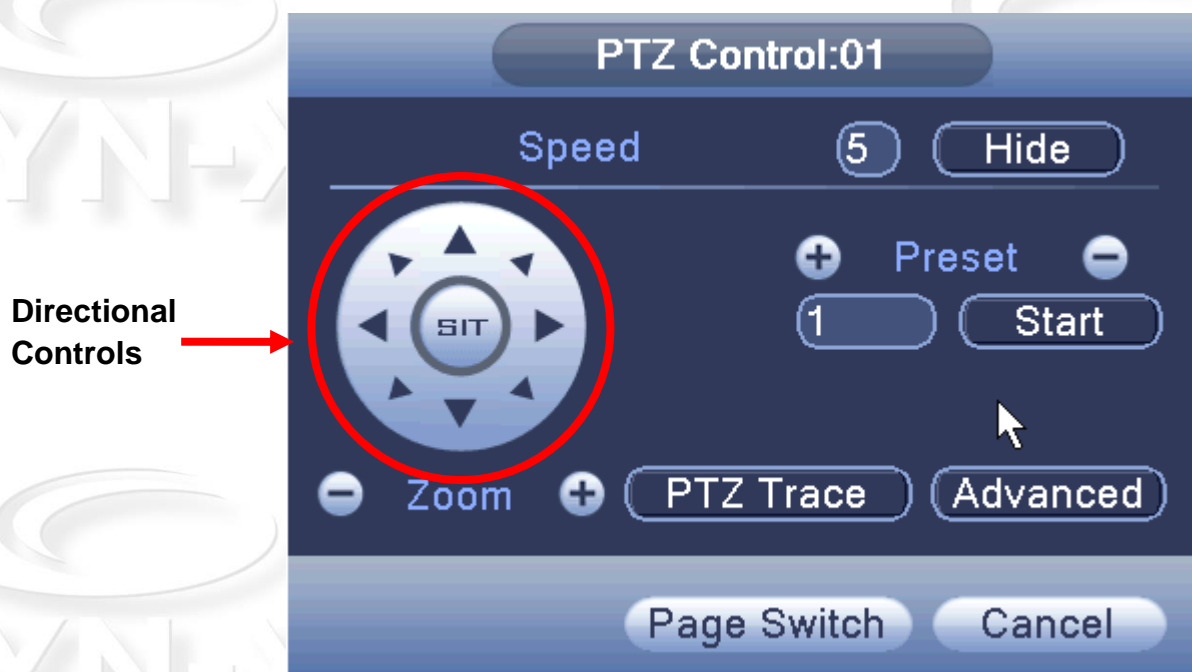


Figure 2.12 PTZ settings

[Speed]: Set the PTZ rotation range. Range: 1 ~ 8, Default: 5.

[Zoom]: Click the buttons to increase/decrease the zoom function of the camera by multiple increments.

[Preset]: Click the buttons to call up each of the preset points, the PTZ automatically turns to the given preset position.

[Hide]: The current interface will be temporarily hidden after clicking this button.

[Direction controls]: Controls the PTZ's rotation within 8 different directions. You can also use the DVR's front panel directional controls to control the PTZ's rotation in 4 different directions (up, down, left and right).

[PTZ Trace]: Selecting this will provide you with a full-screen display of the video channel. Click the left mouse button and control the PTZ's rotate orientation. Click the left mouse button and then rotate the mouse to adjust the zoom function of the camera.

[Page switch]: Switch between different pages.

Special functions:

- **Preset**: Set a location for the preset, calls the preset points, PTZ automatically turns to the setting position, shown in Figure 2.12.

Preset option:

To set a location for the preset, the procedure is as follows :

Step 1: Increase the preset point: Enter a number in , then click the **+** button, you can then add a preset point.

Step 2: Deleting preset: Enter a number in , then click the **-** button, you can delete a preset point.

Step 3: Enter a number in , Then click on the **Start** button, the camera head will rotate to the preset position.



Figure 2.13 preset configuration

[Advanced]: click on the **Advanced** button, as shown in Figure 2.13, and enter a new operation menu page.

[Focus]: Click either buttons **- / +** to adjust the focus of the camera.

[Iris]: Click either buttons **- / +** to adjust the iris of the camera.



Figure 2.14 PTZ Control

- **Cruise between Points:** You can set a cruise preset by setting the PTZ camera at a start point and then moving it to an end point. Choose different start and end points and allocating them to a preset number.
- **Tour:** Cruise lines are connected by multiple preset points, setting procedure is as follows:

How to create a cruise preset:

Step1: The directional keys shown in Figure 2.12 will turn the PTZ to designated location then the user will need to click the 'Advanced' button to enter the menu as shown in Figure 2.14,

Step 2: Enter a number in the 'Tour' field to allocate a preset cruise motion to that number. Click the $\boxed{-}$ $\boxed{+}$ keys to increase/decrease the preset number. Click 'Start' and control the PTZ camera with the function keys from one single directional point to another (using the Focus and Iris controls to adjust picture clarity/sharpness). Click on the 'Stop' button when you have completed programming the cruise preset.

Step 3: repeat Step 1 and Step 2, until set out all the preset have been designated cruise lines.



Figure 2.15 Cruises between Points Settings

- **The Calls of Cruise between Points:** In Figure 2.12, click the 'Page Switch' button, enter PTZ control menu as shown in Figure 2.15. Please input the cruise number in the blank 'Preset' field, then go back to the PTZ Config interface and start Cruise between two points, PTZ begins to work along the cruise line. Click Stop button to stop cruise.
- **Remove Preset :** Please input the preset value in the blank Preset field and click the 'Del Preset' button, then remove the preset points.
- **Remove Cruise Line :** Input the number of the cruise line, click 'Del Preset' button, see Figure 2.15, then remove the cruise lines set.
- **Scan:** PTZ also can work on the same preset scan line repeatedly/continuously.

Scan setup:

To set the PTZ to perform a scan tour please follow these steps:

Step 1: In Figure 2.12, click the 'Advanced' button to enter Figure 2.14 ;

Step 2: Enter a number in input field, Click the key **+** to be taken to the PTZ config interface as shown in Figure 2.16. Navigate the PTZ with the controls provided;

Step 3: In Figure 2.16, you can set the following items: Zoom, Focus and Iris,

Step 4: Click the OK button to enter the menu shown in Figure 2.13. Click the right mouse button again, enter Figure 2.12.

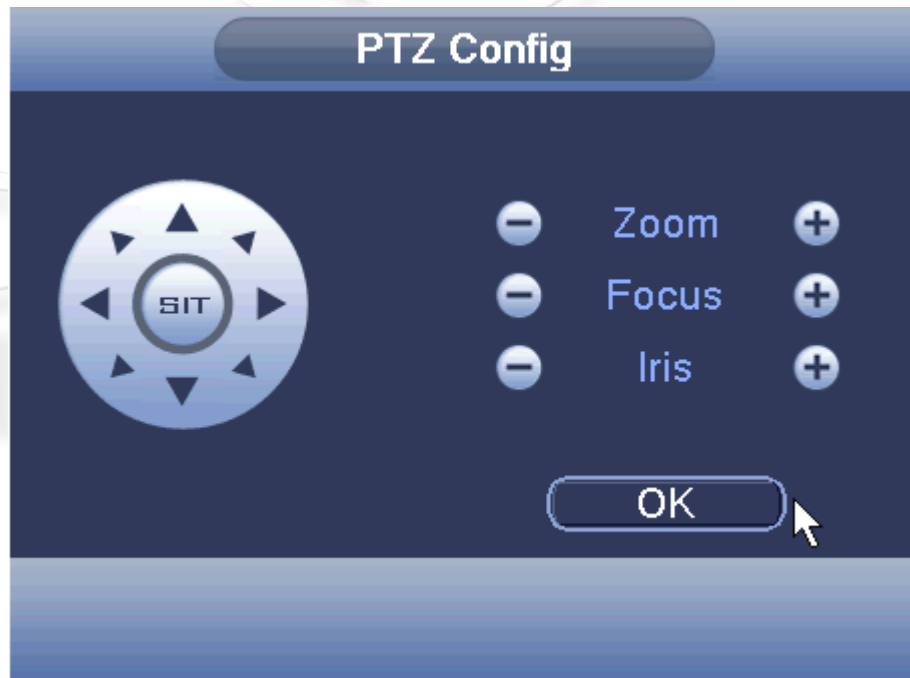


Figure 2.16 Scan Setup

- **Scan Calls:** In figure 2.12, click Page Shift button, then enter PTZ control menu as shown in Figure 2.13. Please input the number of the scan in the input field, then click Scan button, PTZ begins to work on the scan line. Click Stop button to stop.

3. Boundary Scan

You can set the PTZ to scan around a boundary line continuously.

- **Boundary Scan setup**

To set the PTZ to perform a repeated boundary curve tour see steps below:

Step1 : In figure 2.12, click the 'Advanced' button to turn the PTZ to a preset direction;

Step2 : In figure 2.17, use the directional controls to point the PTZ camera to a desired secondary point.

Step3: Use the directional controls in steps to create a curve inconjunction with the azimuth.

Note: The PTZ will reverse from the end of the boundary scan back to the starting position as a completion of one tour cycle.



Figure 2.17 Boundary Scan Setup

- **Boundary Scan Calls:** In Figure 2.12, click the Page Switch button, then enter PTZ control menu as shown in Figure 2.13. Please input the number of the scan into the blank field, then click the Scan button, the PTZ begins to work along the preset scan line. Click Stop button to stop PTZ movement.
- **Horizontal Rotating:** Click either of the left or right directional arrows to begin horizontal rotation. The PTZ begins to rotate horizontally (relative to the original position of the camera). Click the Stop button to stop.
- **Reset:** The reset button will cause the PTZ to restart and all the data clears to 0.
- **Page Switch:** In Figure 2.12 click the Page Switch button until you get to the menu shown in Figure 2.18, which sets the auxiliary function.



Figure 2.18 Auxiliary Function Control

[Intuitive Auxiliary Ope(ration)]: choose the auxiliary equipment from the drop down menu then select either Open or Close button to set the switch control ;

[Auxiliary Number Ope(ration)]: The number of the corresponding auxillary operation for the PTZ ;

[Page Switch]: In Figure 2.18, click the Page Switch button, enter the Figure 2.13 - PTZ Main Menu.

2.5.7 Image Color

Set the selected channel's image parameters (when in single-screen preview of the current channel, multi-screen cursor to where the channel), you can use the desktop shortcut menu to enter the interface. Image parameters include: brightness, contrast, saturation, hue, gain, horizontal sharpness, vertical sharpness. There are also two different sets of parameters you can customise. One set you can customise for the camera footage is recorded during the day (IR LED off) and the other is for footage recorded at night or low light conditions (IR LED on).

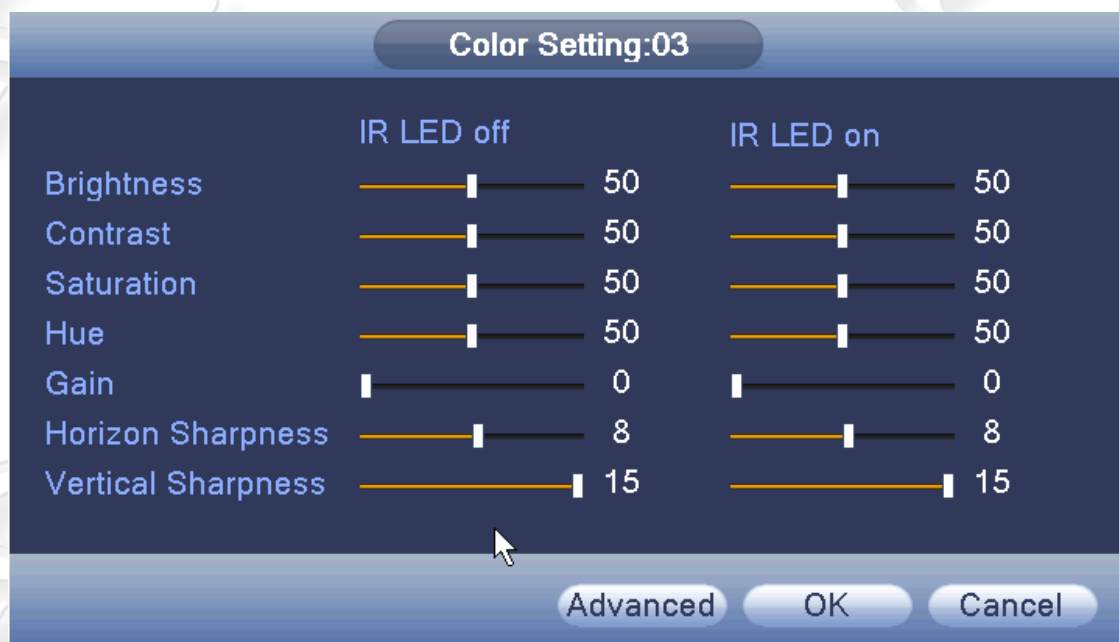


Figure 2.19 Image color

2.5.8 Output Adjust

Adjust the output to the monitor connected to the device using the parameters shown in Figure 2.20. You can use the desktop shortcut menu or enter **[Main Menu]: > [Management Tools]: > [Output adjust]** .



Figure 2.20 Output Adjust

2.5.9 Logout

The Logout menu will logout of the user account, shut down or reboot (restart) the system . You can use the desktop shortcut menu or enter **[Main Menu]** to find this '**Logout**'.

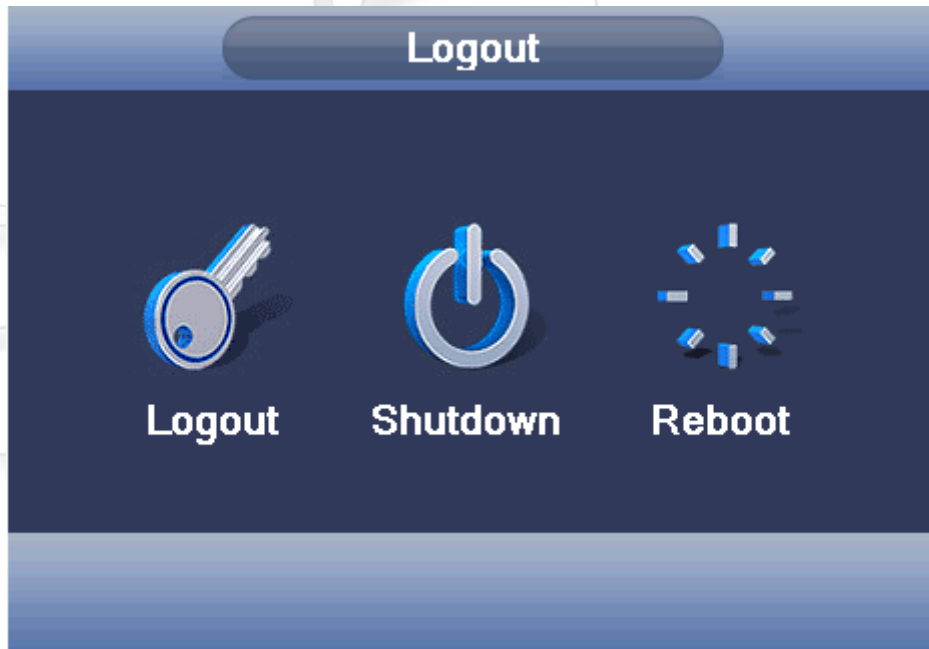


Figure 2.21 Logout/Shutdown/Reboot the system

- **[Logout]:** Log out of user account. You will be offered the user login screen to enter into the user account.
- **[Shut down]:** Quit the system. Turn off the power supply.

When press the shut down button, there is schedule hint. After three seconds, the system is shut down. Cancel midway is of no effect.

- **[Reboot]:** Quit the system. Reboot/restart the system.

2.5.10 Window switch

Preview in single window/four windows/eight windows/nine windows/sixteen windows according to your choice.

2.5.11 SPOT

A BNC connector for a Spot monitor interface feature is only supported by certain DVR models. The user can switch the SPOT output to split screen mode via the context menu. When the SPOT monitor is connected via a BNC it will only display the live video previews and not the user interface.

You can customise the SPOT monitor to display a array of multi panel view of

the live camera feeds from a list of options. These options include single video panel, four or sixteen.

2.6 Main Menu

When you login, to view the system main menu, as shown below, you need to bring up the desktop shortcut menu and select 'Main Menu'.



2.6.1 Main menu navigation

Main menu	Sub menu	Function
Recording function	Video settings	Recording configuration, recording type, recording time, etc.
	Playback	Video search, video player, video file
	Video backup	Detect backup devices, formatting backup device, backup selected files
	Image storage	Detect backup device, format backup equipment, backup selected files
Alarm function	Motion Detection	Set channel; Device type;
	Video blind	Linkage parameters: Arming time, alarm output, screen prompts, video, PTZ, round

	Video loss	robin, beep, EMAIL, FTP upload
	Alarm input	
	Alarm output	Set the alarm mode: configuration, manual, off
	Exception Handling	No hard drive, hard disk error, lack of disk space, off network events occurred after the IP conflict time, setting the linkage parameters: screen prompts or buzzer
	Intelligent analysis	Customisation of setup rules: perimeter guard, care items, video diagnostics. Set rules: show trail, sensitivity, minimum travel distance, alert mode, and set the linkage parameters: Arming time, alarm output, the screen prompts, recording, PTZ, round robin, beep, EMAIL, FTP upload, phone reporting
System settings	ordinary settings	Set the system time, date format, time format, language, hard disk full operation, the machine ID, video format, output mode, standby time, daylight saving time
	Encoding settings	Set each channel coding and combinations coding main parameters: encoding mode, resolution, frame rate, stream control, quality type, code stream value, I frame interval parameters, video / audio enabled; Note: Mixed mode and full simulation mode only encoding settings.
	Network Settings	Set basic network parameters, and set DHCP, DNS parameters, network speed download
	Network Services	PPPOE, NTP, Email, IP permissions, DDNS parameters
	Output mode	Set the preview hint icon state, transparency, resolution, VGA (HDMI) priority
	RS485	Set protocol, address, baud rate, data bits, stop bits, parity
	Port settings	Set the serial port function, baud rate, data bits, stop bits, parity
	touring output	Set touring mode and interval
	SPOT settings	Set polling mode and the output of the interval Spot
	Channel Management	Set channel mode, view the channel status, and set the parameters of digital channels, etc.
Management tool	Hard disk management	Set the specified hard disk drive to read and write, to read-only disc, set to redundant disk, clear the data, data recovery and other operations

	User management	Modify users, modify group, change passwords, add users, increasing the group, delete users, delete groups
	Online user	Users may have been forcibly logged off the network, after disconnecting the account will freeze to recover when the next boot
	Output adjustment	Adjustment on the side away from the lower side of the pitch, the left margin and right margin
	Auto Maintenance	Set to reboot the system automatically and also to delete the system time
	Restore default	Restore settings Status: Normal settings, video settings, alarm settings, network settings, network services, output mode, the serial port settings, user management
	Update	Upgrading using external devices (such as USB)
	Device information	Configure some device hardware information
	Import/ export	Exporting logs or configure the device to an external device (such as U disk); connect an external device (such as U disk) configuration import equipment
System information	Hard disk information	Display hard disk capacity, recording time
	Stream statistics	Display stream information
	Log	Query log, and clear all log information
	Vision	Display version information
Shut down		log off, shut down, restart function

2.7 Recording function

Video-related operations, including: **video setup, video playback, video backup.**

2.7.1 Video settings

Set the video parameters for the monitored channel. When you first start, the system is set to 24 hours of continuous recording. **[Main menu]: > [recording function]: > [Video Settings]: .**

Note: The DVR will need to have a dedicated read/write hard disk drive installed (for more detailed instructions, please refer to section 3.5.1)

Period	Time Range	Regular	Detect
Period 1	00:00 - 24:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Period 2	00:00 - 24:00	<input type="checkbox"/>	<input type="checkbox"/>
Period 3	00:00 - 24:00	<input type="checkbox"/>	<input type="checkbox"/>
Period 4	00:00 - 24:00	<input type="checkbox"/>	<input type="checkbox"/>

Figure 3.1 video settings

[Channel]: to select the appropriate channel number for the channel set, you can then adjust all the settings for the chosen channel;

[Redundant]: selecting the redundancy function will enable the system to backup the video files. The selected video channel will be simultaneously recorded onto two hard drives (If a secondary hard drive is installed). For detailed operation, please refer to section 3.5.1);

[Length]: to set the length of time for each video file. The default setting is 60 minutes;

[Recording Mode]: to set the recording mode of the video, there are three states to select: configuration, manual on and off;

Configuration: record video in accordance with the recording type and recording time period set (general, detection, and alarm);

Manual: No matter what state of the current channel, select the "Manual" button and the corresponding channel will be set to 'All' for normal video;

Off: No matter what state of the current channel, select the "off" button and the corresponding channel will stop recording.

[Time period]: to set what time period to start recording within;

[Recording type]: to set the recording type. There are three types: normal,

detection and alarm.

Normal: In the time period set for normal video, the video file type is "R";

Detection: When set within a given time period the "Motion Detection", "Video Block", "Video Loss", "Exception Handling" functions will be switched on to give out an alarm signal when the alarm is triggered. Also when these alarms are triggered the DVR will start recording. Video file type is "M".

Alarm: When set within a given time period if the alarm is triggered a signal will be sent to an external alarm, and the "Alarm Input" function is set to open the video function to start detection recording. Video file type is "A".

2.7.2 Playback

View chapter "2.5.2 video playback."

2.7.3 Video backup

Backup the recorded video files to an external storage device. You can then playback backed up files on a separate PC workstation.

Note: Before backing up video files, you need to make sure there is sufficient storage space available on the backup storage device. Otherwise the backup function will be terminated.



Figure 3.2 Detect memory

[Detect]: Detect storage devices connected to the device. Compatible devices include USB flash drive or portable HDD;

[Backup]: When you click Backup, a Backup dialog box pops up, you can then select the backup video files based on type, channel, time and other attributes (see Figure 3.3 record backup).

[Burning]: Click the Burn option to burn video will sync selected channel;

[Erase]: Select the file to delete and click the erase option to delete the device files;

[Stop]: Stop the backup;

2.8.1 Motion detection

By analyzing the video image, when the system detects a mobile object within the camera's field of view the motion detection alarm and the linked functions will be initiated.

Channel	1	Enable	<input checked="" type="checkbox"/>
Sensitivity	Highest	Region	Set
Period	Set	MD Interval	1 Sec.
Record Channel	1 2 3 4		
Tour	1 2 3 4		
PTZ Activation	Set	PostRec	10 Sec.
Show Message	<input type="checkbox"/>	Send Email	<input type="checkbox"/>
Buzzer	<input type="checkbox"/>	Write Log	<input type="checkbox"/>
FTP upload	<input type="checkbox"/>	Mobile reported	<input type="checkbox"/>

Advanced OK Cancel Apply

Figure 3.4 motion detection

[Channel]: Select the number of channels to be set.

[Enabled]: Enable the motion detection alarm.

[Sensitivity]: set the sensitivity level to one of six level options; lowest, low, medium, high, very high;

[Region]: Click 'Set' to enter the region set up screen. It is divided into a 22x18 segmented grid. When a segment of the grid is highlighted in red it means that it has been fortified with the motion detection function, i.e. when an object moves into the red segment of the screen the motion detection function will be enabled. When the segment on the grid is not highlighted in red, the motion detection feature will not be enabled (see Figure 3.5 area setup).

Hold down the left mouse button and draw an area highlighted in red. (By default the entire area is selected for the monitoring area)

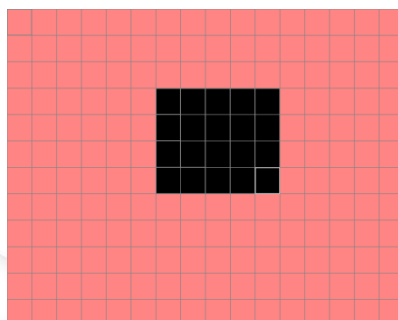


Figure 3.5 area setup

[Period]: You can also set when, during a weekly time period, the motion detection alarm function will be active. You can select up to 4 periods a day, Monday – Sunday. If you set a specific time frame during a particular day, the times outside of that time frame will not have the motion detection function enabled (see Figure 3.6 time period).

The 'Set' dialog box is shown with the following configuration:

- Day: Wednesday
- Period 1: ☒ 00:00 - 24:00
- Period 2: ☐ 00:00 - 24:00
- Period 3: ☐ 00:00 - 24:00
- Period 4: ☐ 00:00 - 24:00
- Grid: A 7x24 grid for days Sun through Sat and hours 0 through 24. All cells are green, indicating motion detection is active for all days and times.

Figure 3.6 time period

Motion Detection Menu (Continued):

[Output]: (option is only available on devices with alarm outputs) output an alarm to an external alarm device.

[MD Interval]: set an interval between two alarms. A short time interval can be set between 0 and 600S.

[Video channel]: Set the video channels where the motion detection function is enabled upon.

[PTZ Activation]: When the alarm is triggered, the PTZ preset tour/cruise setup paused.

Note: PTZ linkage, you need [shortcut menu]: > [PTZ]: , set the preset point, cruise between points, intervals and other parameters.



Figure 3.7 PTZ Linkage

[Post Rec]: After the alarm ends, the length of time to continue the local recording can be set between 10 and 300S.

[Show Message]: a pop-up dialog box will appear on screen and will prompt warning information;

[Send EMAIL]: When an alarm is triggered, it will send an alarm message to the specified mailbox, which can be set in the mailbox settings.

[FTP Upload]: when the box is highlighted it means FTP upload is enabled. When the motion detection alarm is triggered the recorded file of the incident will be uploaded as backup to a user specified FTP storage server.

Note: to specify a FTP to backup video footage to you need input the FTP details in the [Network Services] menu section.

[Beep]: when an alarm is triggered, the device will produce an alarm sound in the form of a large “Beep”.

[Write Log]: system will write a log to the system log list (See Chapter 3.6.3).

[Mobile reported]: Send a text message to a specified mobile phone number.

2.8.2 Video blind

When the input signal/video image from a connected camera produces no video image or the lighting conditions are too dark, an alarm will be triggered. This could be caused by an external force, e.g. someone purposely covering the camera. You can set how the system will alarm and send notifications in the same way as you can with the motion detection function (see previous chapter).

Note: Advanced button is same as clicking the right mouse button.

Channel	1	Enable	<input checked="" type="checkbox"/>
Sensitivity	Highest		
<hr/>			
Period	Set		
Record Channel	1 2 3 4		
Tour	1 2 3 4		
PTZ Activation	Set	PostRec	10 Sec.
Show Message	<input type="checkbox"/>	Send Email	<input type="checkbox"/>
Buzzer	<input type="checkbox"/>	Write Log	<input type="checkbox"/>
FTP upload	<input type="checkbox"/>	Mobile reported	<input type="checkbox"/>
<div>Advanced OK Cancel Apply</div>			

Figure 3.8 video blind

2.8.3 Video loss

When the device does not receive a channel video signal, the system will trigger an alarm. You can set how the system will alarm and send notifications in the same way as you can with the motion detection function (see previous chapter).

Channel 1 Enable ☒

Period

Record Channel

Tour

PTZ Activation PostRec 10 Sec.

Show Message ☐ Send Email ☐

Buzzer ☐ Write Log ☐

FTP upload ☐ Mobile reported ☐

Figure 3.9 video blind

2.8.4 Alarm input

When the device gets an external alarm device alarm signal, it will perform the specified alarm function.

Note: Advanced button is the same as the right mouse click.

Type	IPC Alarm		
AlarmIn	1	Enable	<input checked="" type="checkbox"/>
<hr/>			
Period	Set	MD Interval	1 Sec.
Record Channel	1 2 3 4		
Tour	1 2 3 4		
PTZ Activation	Set	PostRec	10 Sec.
Show Message	<input type="checkbox"/>	Send Email	<input type="checkbox"/>
Buzzer	<input type="checkbox"/>	Write Log	<input type="checkbox"/>
FTP upload	<input type="checkbox"/>	Mobile reported	<input type="checkbox"/>
<div> Advanced OK Cancel Apply </div>			

Figure 3.10 Alarm input

2.8.5 Alarm output

Same to the chapter '2.9.5 Alarm Output'

2.8.6 Exception Handling

Depending on the setup of you CCTV system, when an abnormal event is detected, the device responds accordingly, e.g. buzzer sounds, prompt message appears on screen, email notification to a specified email address, etc.

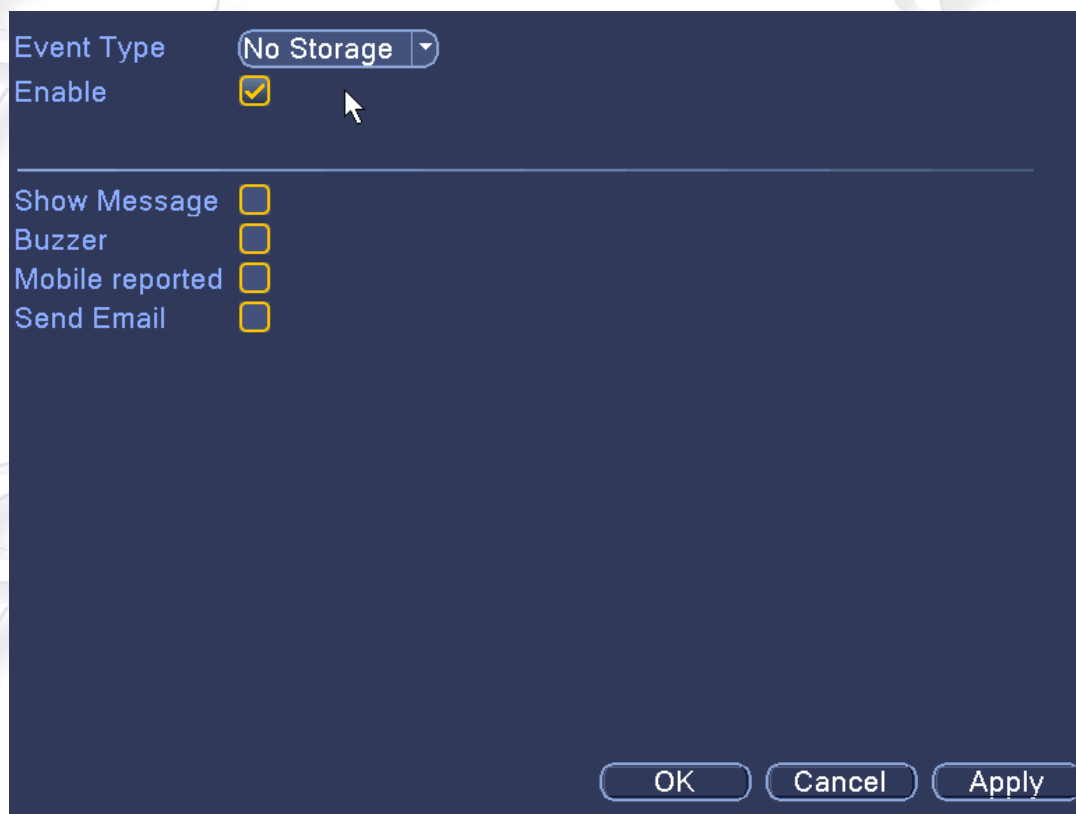


Figure 3.11 exception handling

[Event Type]: Select the the event type from the drop down list.

[Enable]: When this box is ticked it means that the exception handling feature in enabled.

[Show Message]: system will make an alarm message prompt appear on the screen when you tick this box.

[Beep]: when the alarm is triggered the device will product an alarm sound.

[Mobile reported]: Send a text message to a specified mobile phone number.

[Send EMAIL]: When an alarm is triggered, it will send an alarm message to the specified mailbox, which can be set in the mailbox settings.


2.9 System settings

This menu section allows the user access to customise ordinary settings, encoding settings, network settings, network services, output mode, PTZ settings and serial port settings.

You can access the system settings via **[Shortcut menu] > [Main Menu] > [Settings]**

2.9.1 General settings

Select the **[General settings]** option to bring up the menu, as shown in figure 3.12.



The screenshot displays a 'General settings' dialog box with a dark blue background. It contains the following settings:

- Time Zone:** [UTC+08:00]Beijing,Urumqi,Ta (dropdown)
- System Time:** 2015 - 04 - 15 14 : 06 : 29 (text input)
- Date Format:** YYYY MM (dropdown), ☐ DST (checkbox)
- Date Separator:** - (dropdown)
- Time Format:** 24-HOUR (dropdown)
- Language:** ENGLISH (dropdown)
- Storage Full:** Overwrite (dropdown)
- DVR No.:** 0 (text input)
- Video Standard:** NTSC (dropdown)
- Auto Logout:** 0 (text input) min
- Machine Name:** LocalHost (text input)

At the bottom right, there are three buttons: OK, Cancel, and Apply.

Figure 3.12 general settings

[System time]: set the system time manually.

[Time Zone]: Set time zone you are currently located in. The default setting is CMT +8.

[Date Format]: select what format you want the date to be shown in: Year Month Day/ Month Day Year/ Day Month Year.

[Time Format]: Select the either 12 or 24 hour time format.

[Language]: Set the system language from 20 different types.

[Daylight Saving Time]: Daylight Saving Time feature set start time and end of daylight saving time, as shown below by week or day (see Figures 3.13 & 3.14).

[Date separator]: Set the how the preview screen displays the date when in the delimited format.

[Storage full]: When the hard disk is full, what is selected here are the measures taken by the system.

[Video Format]: Select the video format. Either PAL or NTSC can be chosen.

[DVR Number]: Provide the device a number so that when you remotely access it you can differentiate it from the other devices you may have on your list of devices you can access.

[Auto Logout]: You can be set the amount of time of system inactivity by a user before it will automatically logout of the user account.

[Machine Name]: Provide a name for the device. The name can be of your choice.



Figure 3.13 Daylight Saving Time (weeks) setting



Figure 3.14 Daylight Saving Time (days) setting.

2.9.2 Encoding settings

Set the video / audio encoding parameters including video files, remote monitoring and other image parameters.

There are two columns of setup options within the encoding menu. The left column is for the main channel stream and the right hand column is for the extra (sub) stream. This dual-stream configuration allows for the main stream to provide the chosen channel to this list of resolutions: 1080P / 720P / 960H / D1 / HD1 / CIF / QCIF. The extra stream has lower resolution options such as CIF/QCIF. The extra stream is provided for when you want to remotely access the DVR over a network connection and the network bandwidth is too small to accommodate a large data stream of higher resolutions in the main stream.

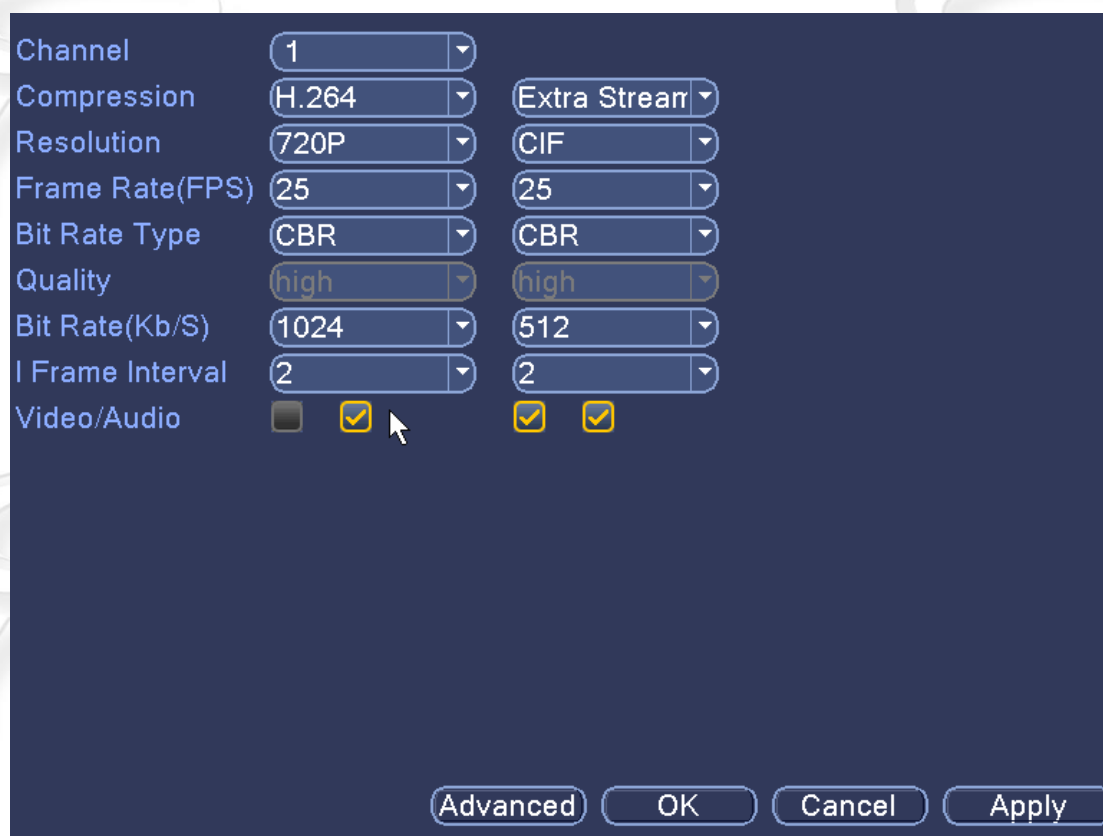


Figure 3.15 encoding settings

[Channel]: to select the channel number so that you can view the corresponding channel information;

[Compression]: select encoding standard

[Resolution]: Select what resolution you want to set for the channel, depending on the maximum capabilities of the camera on the channel.

[Frame Rate]: can be adjusted, this is dependant on the front end setup of the DVR.

[Stream control]: including Limited stream and variable stream;

[Quality]: change the quality to set the stream value. If facilities allow, the better quality of the stream, the better the video image quality is;

[Bit Rate]: adjust according to capabilities of the system.

[I Frame Interval]: selectable frame interval range is between 2-12 seconds

[Video / Audio]: tick either box if you want to allow either/or video or audion to be transmitted along the streams.

2.9.3 Network settings

Configure IP address, gateway, DDNS of an IP camera you wish to add to your system.

Net Card	Wire Netcard	<input type="checkbox"/> DHCP Enable
IP Address	10 . 10 . 48 . 112	
Subnet Mask	255 . 255 . 255 . 0	
Gateway	10 . 10 . 48 . 1	
Primary DNS	192 . 168 . 1 . 1	
Secondary DNS	8 . 8 . 8 . 8	
Media Port	34567	
HTTP Port	80	
HS Download	<input type="checkbox"/>	
Transfer Policy	Quality Preferred	

OK Cancel Apply

Figure 3.16 network settings

[DHCP]: When this box is ticked then the camera will be assigned an IP address automatically.

[IP Address]: The IP address of the camera is used to login to the network, the default is: 192.168.1.10.

[Subnet Mask]: Set the camera's subnet mask, so it can be consistent with the login computer, default is 255.255.255.0.

[Default Gateway]: Set the default gateway of the camera, so it can be consistent with the login computer, the default is 192.168.1.1.

[DNS Server]: Set the camera's DNS server, so it can be consistent with the login computer. If the DNS is incorrect it may cause Cloud function to not work properly.

[TCP port]: Set the camera's TCP port, the default port is: 34567.

[HTTP port]: Set the camera's HTTP port, the default port is: 80.

[HS Download]: Fast network download enable option.

[Transfer Policy]: Set the network transmission strategies, which can be; adaptive / quality priority / smooth priority / network transmission priority.

Adaptive: when network bandwidth is low, the preview screen automatically jump to sub-stream, to ensure a smooth preview.

Quality Priority: When the network bandwidth is large enough, the preview screen is always displayed in the main stream, when the bandwidth is too low under this setting then there will be a delay in the video rate.

Smooth priority: Under no circumstances the frame rate will be reduced. The encoder settings will change, reducing the size of the stream, to ensure smooth screen.

2.9.4 Network services

This menu section will allow you to configure the PPPoE and other functions of the camera/DVR/connected network.

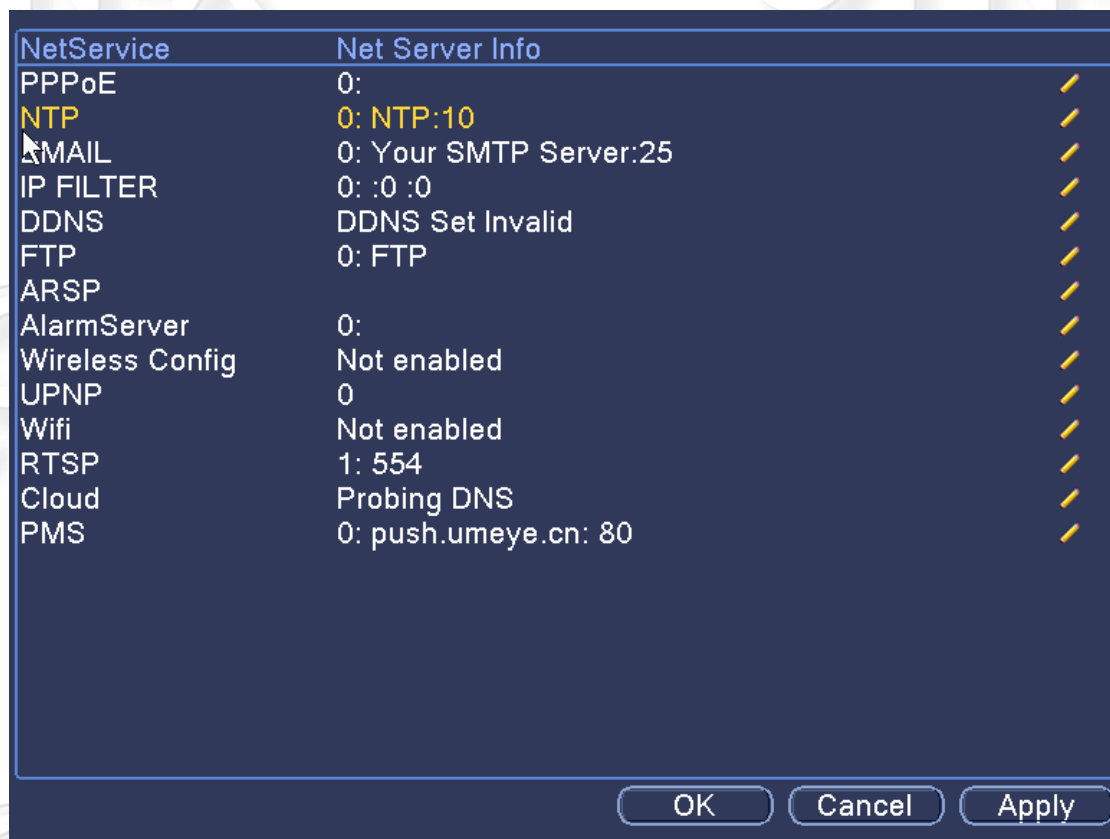


Figure 3.17 network services

PPPoE settings:

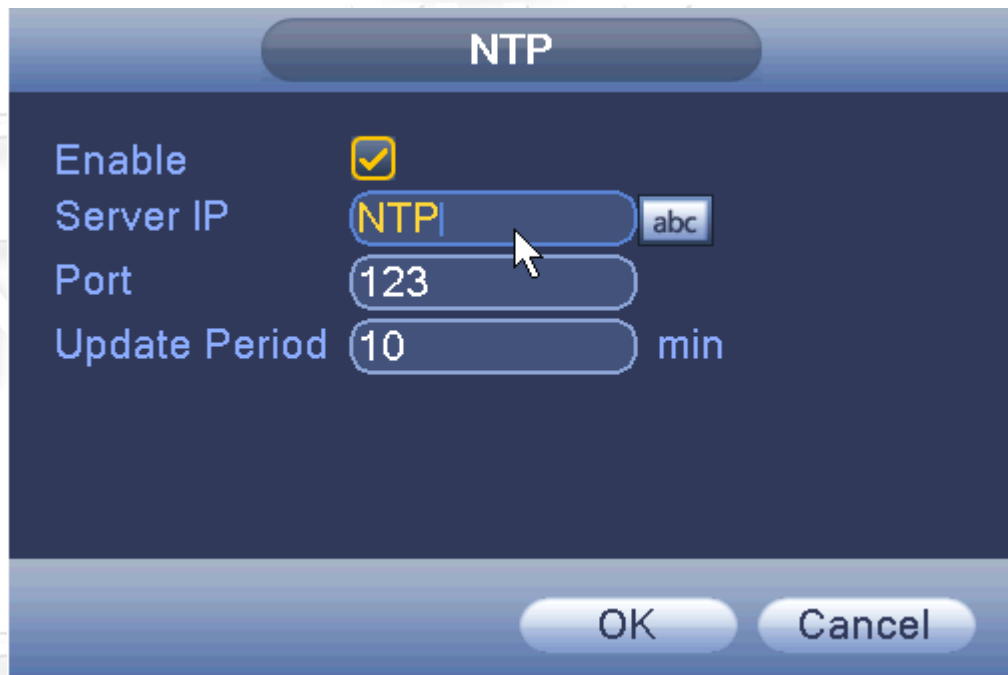


Figure 3.18 PPPoE

[Enable]: When the box is ticked the PPPoE is enabled.

To allow access to the ISP (Internet Service Provider) provide the PPPoE username and password then restart the system after saving. After restarting, the DVR will automatically establish a network connection to the PPPoE mode, when successful, the IP [IP address] will automatically modify the dynamic WAN IP address obtained.

NTP:

A screenshot of a software dialog box titled "NTP". The dialog has a dark blue header with the title "NTP" in white. Below the header, there are four settings: "Enable" with a checked checkbox, "Server IP" with a text field containing "NTP" and a small "abc" button to its right, "Port" with a text field containing "123", and "Update Period" with a text field containing "10" and the unit "min" to its right. At the bottom of the dialog are two buttons: "OK" and "Cancel".

NTP	
Enable	<input checked="" type="checkbox"/>
Server IP	NTP abc
Port	123
Update Period	10 min
OK Cancel	

Figure 3.19 NTP settings

You need to install the NTP service on a PC before setting up the details in this menu.

[Enable]: When the box is ticked the NTP is enabled.

[Server IP]: Enter installed NTP server PC's IP;

[Port]: The default NTP port 123, the port settings can be based on actual NTP server;

[Update Period]: the same NTP server check interval, the default is 10 minutes.

Email:

Set the e-mail addresses for camera sent and received alarm information.



The screenshot shows a configuration window titled "EMAIL". It includes the following elements:

- Enable:** A checkbox that is currently checked.
- SMTP Server:** A text input field containing the placeholder text "Your SMTP Server".
- Port:** A text input field containing the value "25".
- Need SSL:** A checkbox that is currently unchecked.
- User Name:** An empty text input field.
- Password:** An empty text input field.
- Sender:** An empty text input field.
- Receiver:** An empty text input field.
- Title:** A text input field containing the value "Alarm Message".
- Buttons:** Three buttons at the bottom: "Mail Testing", "OK", and "Cancel".

Figure 3.20 Email settings

[SMTP server]: Log mailbox to query entry method SMTP server in mailbox settings.

[Port]: The mail server port number;

[SSL]: consistent with the mailbox configuration, you can log in to view the mailbox into the mailbox settings.

[User Name]: Only fill in email address before the @.

[Password]: Password for the user name of the application.

[From]: Set the message sender EMAIL address.

[Recipient]: You can set up to three e-mail address, separated by a semicolon, can outbox the same e-mail address.

[Subject]: subject of the message, you can set your own.

IP rights settings:

When choosing the white list, the list represents only the IP to connect this DVR. A list of supported 64 IP settings;

When selecting the blacklist, represents a list of the IP network cannot be landed this DVR. A list of supported 64 IP settings;

You can tick check, delete the set IP.

Note: When the black and white list, have the same IP address blacklist authority higher priority.



The image shows a software window titled "IP FILTER". It contains the following elements:

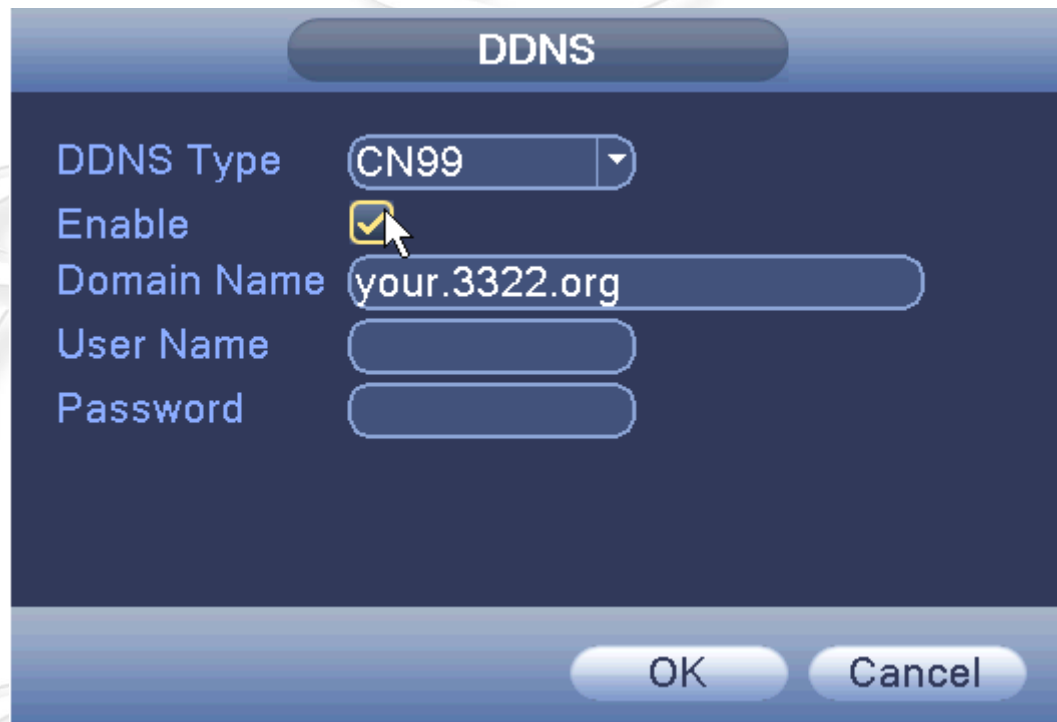
- An "Enable" checkbox that is checked with a yellow checkmark.
- A "Restricted Type" dropdown menu currently set to "Blacklist".
- An IP address input field showing "0 . 0 . 0 . 0" with a mouse cursor over the last "0".
- An "Add" button to the right of the IP input field.
- A table with the following structure:

0	Banned IP
- At the bottom, there are three buttons: "Delete", "OK", and "Cancel".

Figure 3.21 IP rights settings

DDNS:

DDNS stands for Dynamic Domain Name Server. A DDNS provides a static IP address for your DVR so that you can remotely access it using the registered domain name. You need to register with a DDNS service before completing this setup menu.



DDNS Type	CN99
Enable	<input checked="" type="checkbox"/>
Domain Name	your.3322.org
User Name	
Password	

OK Cancel

Figure 3.22 DDNS settings

[Local domain name]: Provide the domain name registered with the DDNS service.

[User name]: Provide the user name for the account registered via the DDNS service.

[Password]: Provide the password registered via the DDNS service.

When the DDNS has been successfully configured, input the registered domain name to the address bar of your internet browser.

[FTP settings]:

When the alarm is triggered and a signal needs to be sent an FTP server is used.

FTP

Enable ☒

Server IP

Port

User Name

Password ☐ Anonymous

Max File Length MB

DirName

Test OK Cancel

Figure 3.23 FTP settings

[Enable]: When ticked, you have enabled the FTP function;

[Host IP]: IP address of the FTP server;

[Port]: FTP port number field, the default port number is 21;

[User name]: Input your registered Username;

[Password]: The username's password;

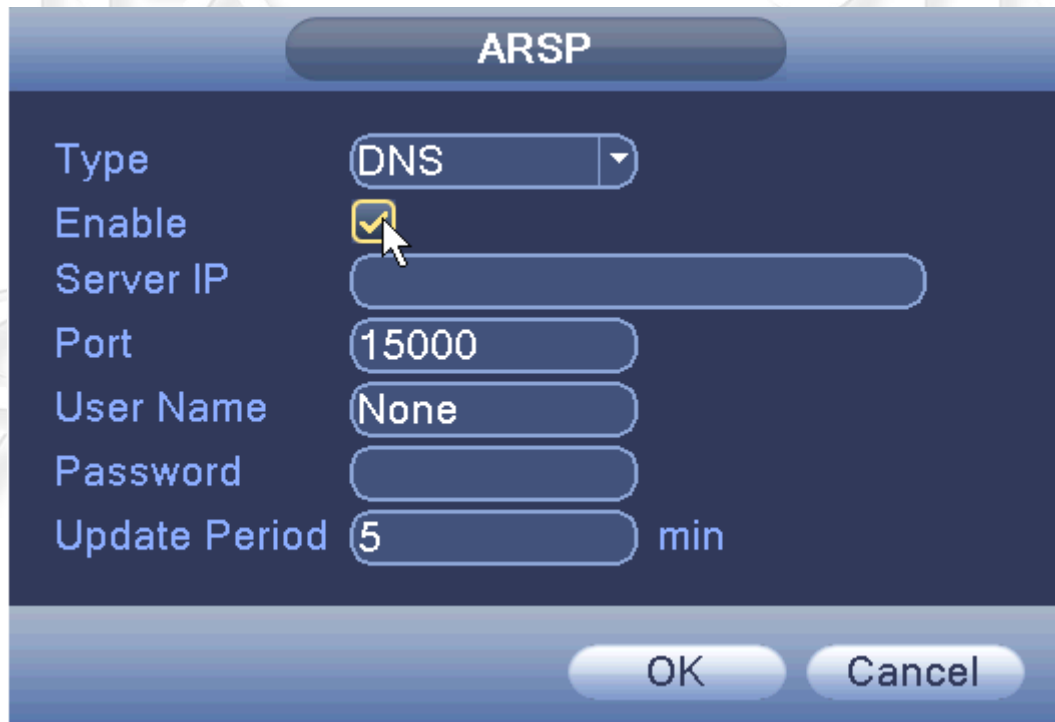
[Anonymous]: When ticked, you have chosen to be anonymous, you do not need to set the user name and password;

[Maximum file length]: Each data package uploads a maximum file size, the default is 1028Mb;

[Remote directory]: file directory to upload files to.

ARSP:

By setting this feature up, you can register a DDNS Sever and add the device to the DDNS server to allow you to perform remote device management.

A screenshot of the ARSP configuration dialog box. The dialog has a title bar labeled 'ARSP'. It contains several fields: 'Type' is a dropdown menu set to 'DNS'; 'Enable' is a checkbox that is checked, with a mouse cursor hovering over it; 'Server IP' is an empty text input field; 'Port' is a text input field containing '15000'; 'User Name' is a text input field containing 'None'; 'Password' is an empty text input field; and 'Update Period' is a text input field containing '5' followed by the unit 'min'. At the bottom right, there are 'OK' and 'Cancel' buttons.

Type	DNS
Enable	<input checked="" type="checkbox"/>
Server IP	
Port	15000
User Name	None
Password	
Update Period	5 min

Figure 3.24 ARSP

[Type]: Select the DNS option;

[Enable]: When ticked, you have enabled the ARSP function;

[Server Address]: IP address of the DDNS server;

[Port]: Device port number of the corresponding DDNS server 'service listening port';

[User Name]: The user name for the device to login to the DDNS server;

[Password]: The password associated to the user name;

[Update cycle]: Equipment and DDNS synchronisation interval

Alarm center:

To allow an alarm signal to be sent to a remote device you need to setup an alarm server.



The image shows a configuration window titled "AlarmServer". It contains several settings: "Protocol Type" is set to "GENERAL" in a dropdown menu; "Enable" is checked with a yellow checkbox; "Server Name" is "AlarmServer" in a text field; "Port" is "15002" in a text field; "Alarm report" is checked with a yellow checkbox; and "Log report" is unchecked with a yellow checkbox. At the bottom right are "OK" and "Cancel" buttons.

Field	Value
Protocol Type	GENERAL
Enable	<input checked="" type="checkbox"/>
Server Name	AlarmServer
Port	15002
Alarm report	<input checked="" type="checkbox"/>
Log report	<input type="checkbox"/>

Figure 3.25 alarm center

[Protocol type]: GENERAL;

[Enable]: When ticked, you have enabled the AlarmServer function;

[Server Address]: IP address of alarm server;

[Port number]: port number of the device;

[Alarm]: When ticked the device will send information, relevant to the police, to the server;

[Log reporting]: When ticked it means that when an alarm has been triggered the device will send a send a report to the server's log.

Wireless Config:

Setup a connection to the Internet access via a wireless router.

A screenshot of a 'Wireless Config' dialog box. The dialog has a title bar with the text 'Wireless Config'. Inside, there are several fields: 'Enable' with a checked checkbox, 'Type' with a dropdown menu showing 'AUTO', 'Wireless AP' with a text field containing 'AccessPoint', 'Dial Number' with a text field containing '#777', 'User Name' with a text field containing 'ctnet@mycdm', 'Password' with a masked text field showing ten dots, and 'IP Address' with a text field containing '0 . 0 . 0 . 0'. At the bottom right, there are 'OK' and 'Cancel' buttons.

Enable	<input checked="" type="checkbox"/>
Type	AUTO
Wireless AP	AccessPoint
Dial Number	#777
User Name	ctnet@mycdm
Password	••••••••••
IP Address	0 . 0 . 0 . 0

Figure 3.26 Wireless Config

[Enable]: When ticked, you have enabled this function;

[Type]: Dial type, default is automatic (AUTO);

[AP]: Wifi access point

[Dialing number]: Provide the Wifi dial number

[User name]: Provide the Wifi username

[Password]: Provide the Wifi password

[IP address]: The IP address of the dial-up number to get

UPNP:

UPNP protocol will allow the device to automatically forward on to the router.

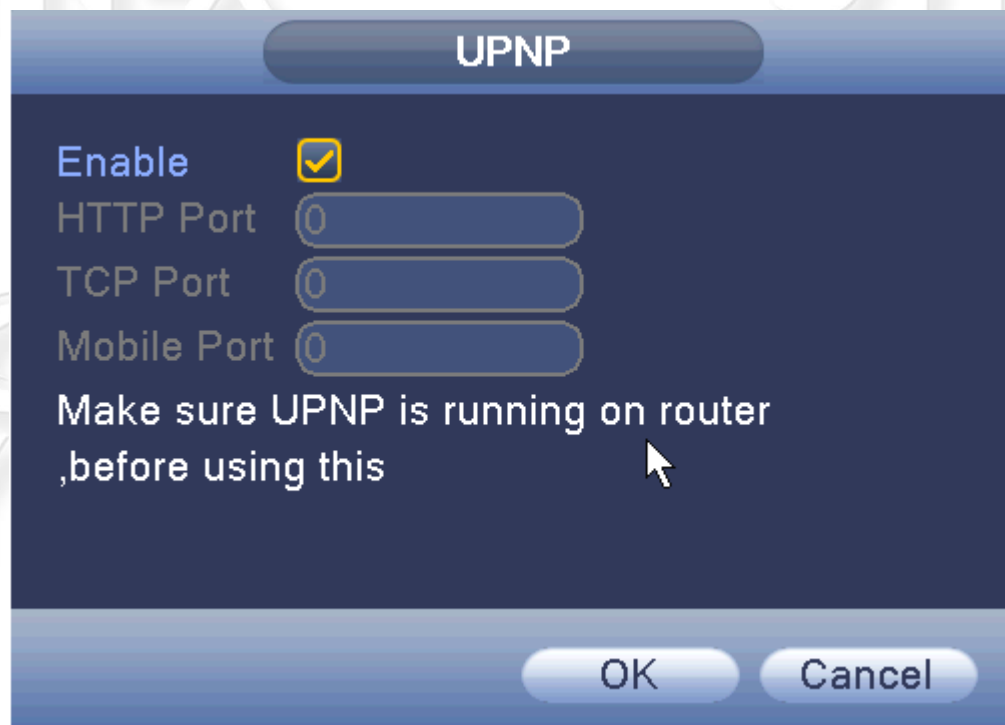


Figure 3.27 UPNP settings

[Enable]: When ticked the UPNP function is enabled;

[HTTP]: router for the device is automatically assigned port numbers.

[TCP]: When the router has been automatically assigned the port of the device, client software monitoring is required by the port number;

[Mobile Port]: router for the device is automatically assigned port numbers, mobile phone monitoring needs through the port number;

WIFI:

Connect to the wireless router using a Wifi card attached to the DVR's main board. This is dependant on whether your device has the module fitted.

SSID	Authentication	Signal
------	----------------	--------

Search

Enable ☐ DHCP Enable ☒

SSID

Password

IP Address

Subnet Mask

Gateway

OK Cancel

Figure 3.28 WIFI settings

[Search]: Click the 'Search' button to search out available Wifi connections within the current range of the wireless device;

[Enable]: When ticked you will enable the Wifi module;

[DHCP Enable]: When ticked the device will obtain an IP address automatically;

[SSID]: Wireless LAN name; automatically matches to your connected wireless devices;

[Password]: Wi-Fi router's password;

[IP address]: Set the device's IP address, default: 192.168.1.9

[Subnet Mask]: Set the device subnet mask, default: 255.255.255.0

[Default Gateway]: Set the device's default gateway, default: 192.168.1.1

RTSP:

Monitoring via cross-browser (Safari, Firefox, Google chrome), and VLC software. This function only allows for live view monitoring and not device configuration and playback.

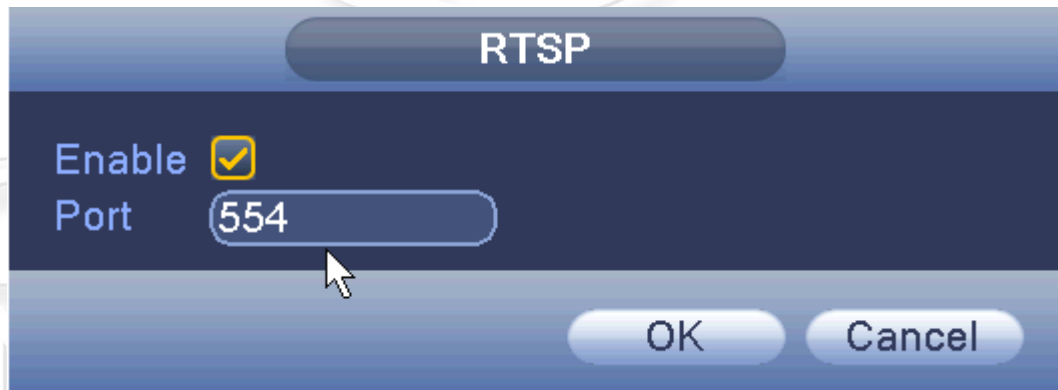


Figure 3.29 RTSP

[Enable]: When ticked, this will enable the RTSP function.

[Port]: the default port is **554**

2.9.5 GUI Display

Configure the video output parameters including time display, record status, transparency, resolution, etc.



Figure 3.30 GUI display

[**Channel Title**]: Click the channel title button and enter the channel name input menu. Modify the channel name.

[**Time Display**]: When box is ticked it will display the system's time in the surveillance window.

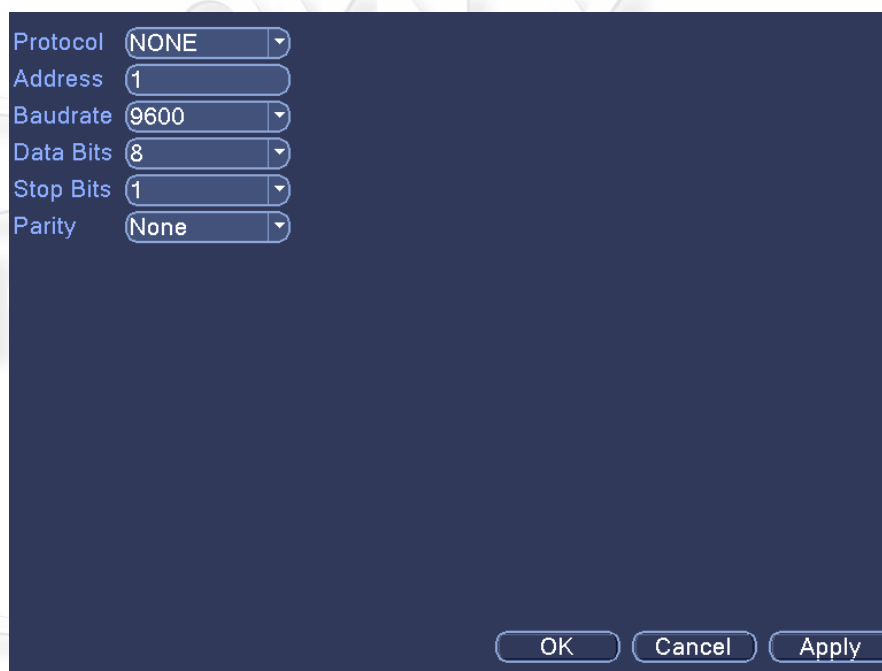
[**Channel display**]: When box is ticked it will display the system's channel number in the surveillance window.

[**Alarm Status**]: When box is ticked it will display the system's alarm status in the surveillance window.

[**Transparency**]: Choose the background image transparency. The range is 128~255.

[**Resolution**]: set display resolution.

2.9.6 RS485



Protocol	NONE
Address	1
Baudrate	9600
Data Bits	8
Stop Bits	1
Parity	None

OK Cancel Apply

Figure 3.31A port settings

[**Protocols**]: to select the protocols;

[**Address**]: set to the appropriate address, the default is 1;

[**Baud**]: equipment used to select the appropriate baud rate, the default is 115200;

[Data bits]: This includes 5-8 options, the default is 8;

[Stop bits]: there are two options 1 and 2, the default is 1;

[Parity]: Chose between odd parity, even parity, mark parity or space parity. The default is none.

2.9.7 Port settings

*** Some products do not support this feature**

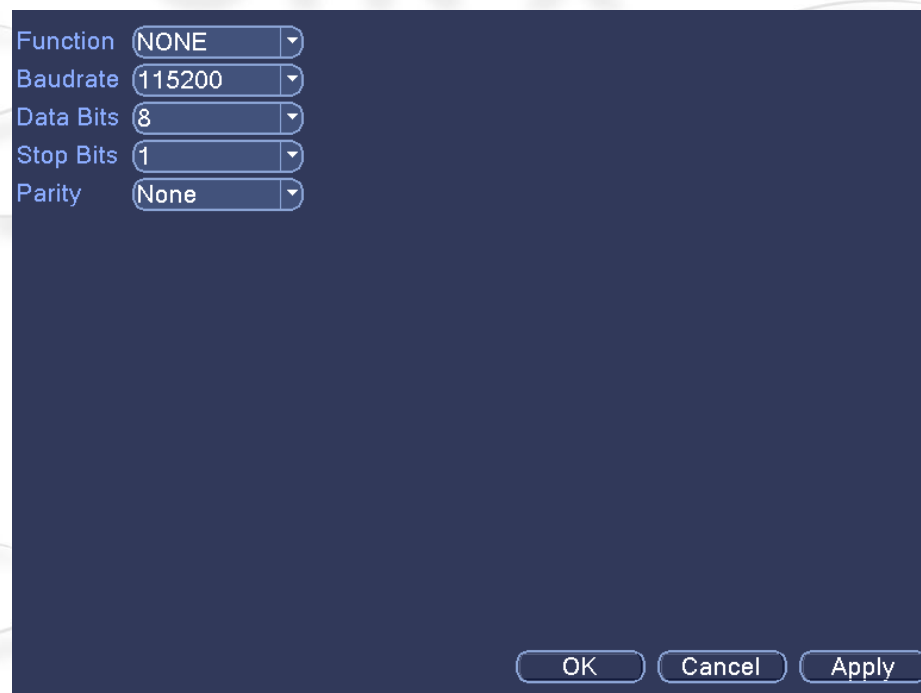


Figure 3.31B port settings

[Serial Port Function]: Common serial port is used to debug and update program or set up specific serial port.

[Baud rate]: Choose the corresponding baud rate length.

[Data bits]: Include 5-8 options

[Stop bits]: Include 2 options.

[Parity]: Include odd, even, mark, space, default is none.

2.9.8 Tour

Set the patrol display. When you have ticked the 'Enable Tour' box the tour mode is enabled. You can choose the single-view, four-view, six-view, single mode tour or hybrid mode tour.

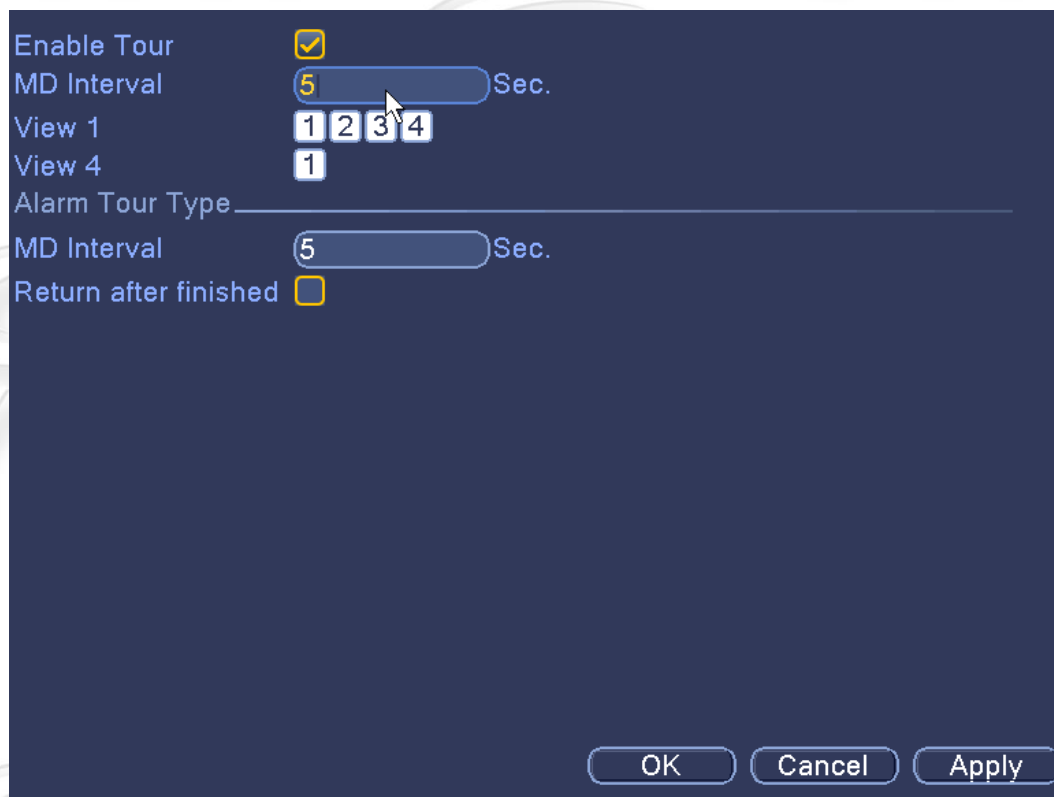




Figure 3.32 touring settings

[Interval] : Set the patrol switch interval. The set range is 5-120 seconds.

[Alarm tour] : set the interval to shift alarm tour, range is 5-120 seconds, choose return when alarm ends, when alarm link to tour, system will auto shift to six-view after alarm finished.

Remark : on the preview mode, click upper right icon  /  can turn on /

off **Tour**: ( mean turn on,  mean turn off)

2.10 Manage Tools

Within this section of the user interface you can configure; hard disk management, user management, automatic maintenance, restore to default system settings, import and export, restart, system upgrades and other functional configuration.

2.10.1 Storage management

Configure and manage the hard disk drive. The menu displays current hard disk information: hard disk number, input port, type, status and overall capability. The operations you can perform include: setup the write-read disk, read-only disk, redundant disk, hard disk format and resume default. Choose the hard disk and click the right function button to execute.

Note :

- **Read/Write Disk:** The HDD installed can write or read data.
- **Read-only Disk:** The HDD installed can read data but cannot write data.
- **Redundant Disk:** The backup disk to store a backup copy of the recorded footage on the write/read HDD.

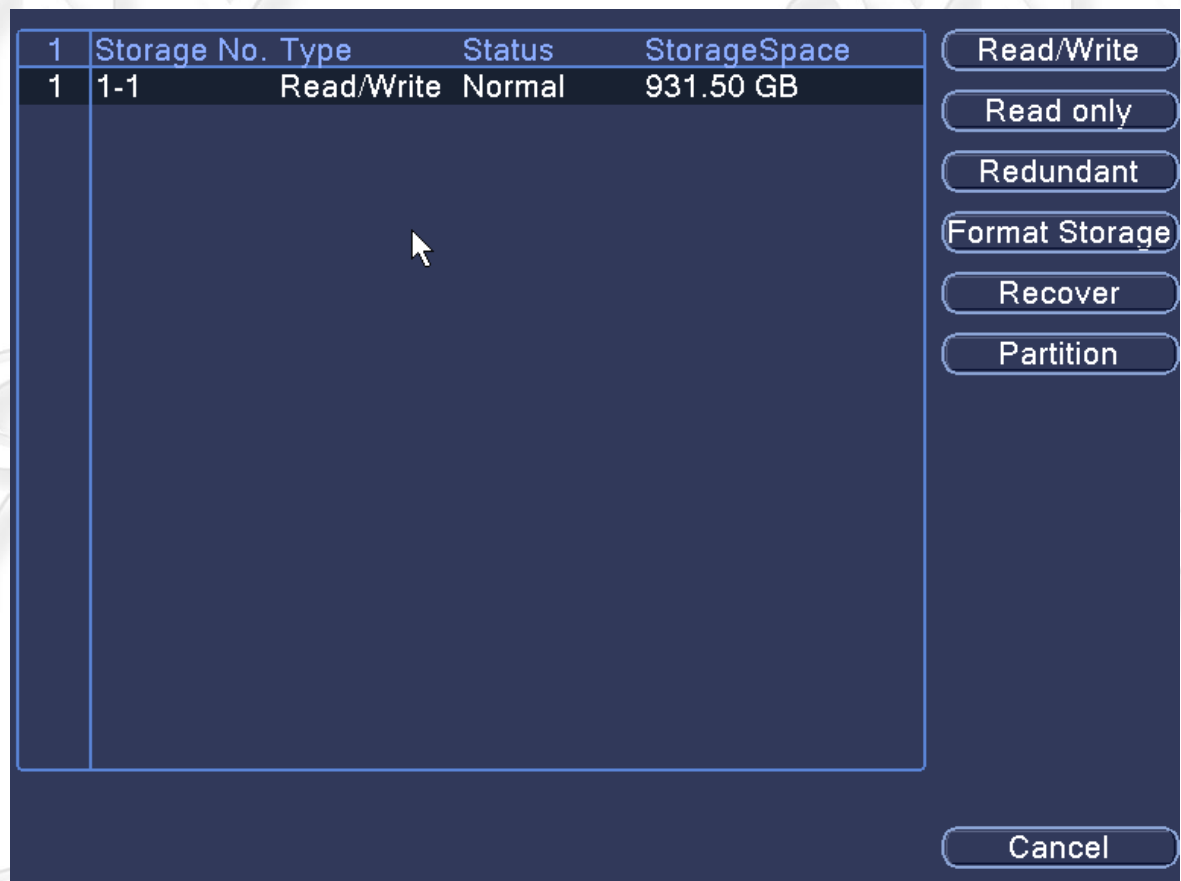


Figure 3.38 Storage Management

2.10.2 Account

Manage the user accounts and permissions.

Note:

1. The maximum number of characters you can use for the user's name is 8. A blank space ahead or behind the character string will make the user name invalid. A blank space in the middle of the user name is valid.
2. Legal characters include: letter, number, underline, subtraction sign, and dot.
3. There is no limit in the amount of users or user group. You can add or delete the user group according to administrator's needs. The factory setup user accounts include: **user/admin**. You can set the team as you wish. The user can appoint the permissions in the group.
4. The user management includes: **group/ user**. The group and user names cannot be the same. Each user can only belong to one group and not to another.

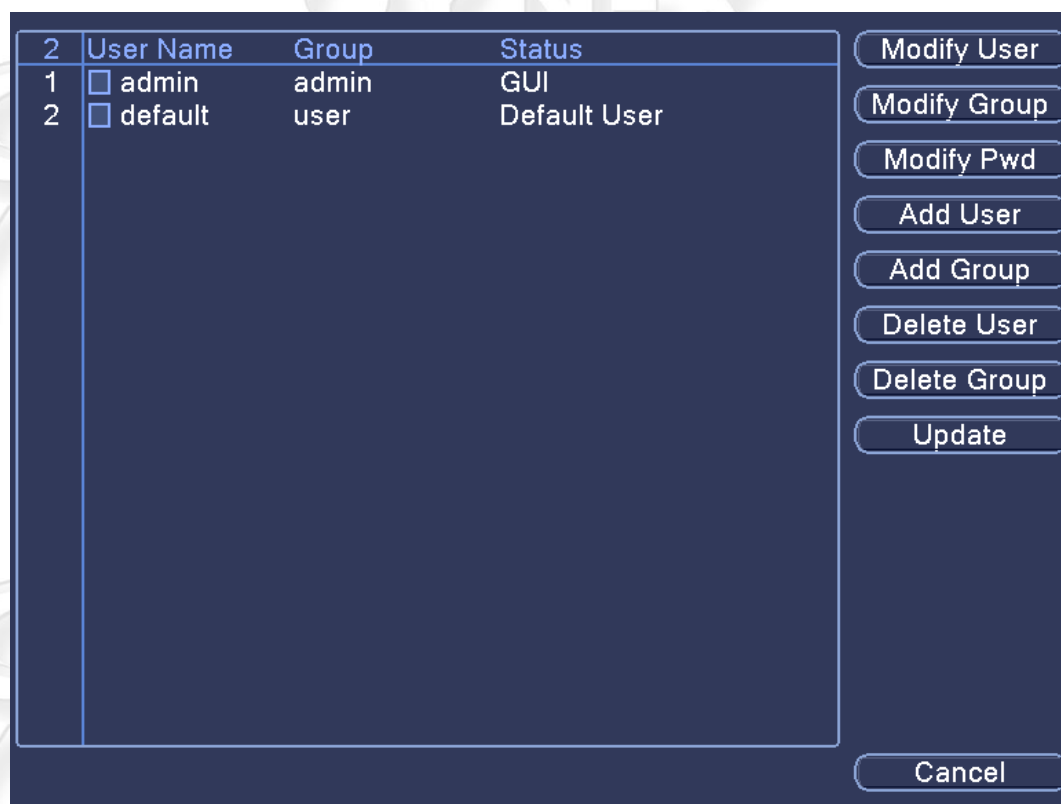


Figure 3.39 Account

[Modify User]: Modify the one of the user accounts shown on the list to the left. You are able to edit the user's details including; reuse, notes, group, class, and permissions.

[Modify Group]: Modify the one of the user groups shown on the list to the left.

[Modify Pwd]: modify user login password.

Note : A user registered to the device can modify their own password but not the passwords of other user accounts. Only a user with administrator level permissions can do this.



Figure 3.40 Modify password

[Add user]: Set new user name, password, notes, owning group, permissions and other information. You can add up to 64 user names. See Figure 3.41 to see the add user setup menu. You will see a tick box list of permissions the user can be issued.



Add User

User Name abc useable ☒

Password

Confirm

Memo

GROUP admin

	<input type="checkbox"/>	Authority
1	<input checked="" type="checkbox"/>	Shutdown the device
2	<input checked="" type="checkbox"/>	Channel Title
3	<input checked="" type="checkbox"/>	Schedule
4	<input checked="" type="checkbox"/>	Backup
5	<input checked="" type="checkbox"/>	HDD Management
6	<input checked="" type="checkbox"/>	Account
7	<input checked="" type="checkbox"/>	Query System Info
8	<input checked="" type="checkbox"/>	Query Log Info
9	<input checked="" type="checkbox"/>	Clear Log
10	<input checked="" type="checkbox"/>	System Update

OK Cancel

Figure 3.41 Add user

[Add Group]: Set the group name, new user group, notes and permissions.



Add Group

Name

Memo

	<input type="checkbox"/>	Authority
1	<input checked="" type="checkbox"/>	Shutdown the device
2	<input checked="" type="checkbox"/>	Channel Title
3	<input checked="" type="checkbox"/>	Schedule
4	<input checked="" type="checkbox"/>	Backup
5	<input checked="" type="checkbox"/>	HDD Management
6	<input checked="" type="checkbox"/>	Account
7	<input checked="" type="checkbox"/>	Query System Info
8	<input checked="" type="checkbox"/>	Query Log Info
9	<input checked="" type="checkbox"/>	Clear Log
10	<input checked="" type="checkbox"/>	System Update
11	<input checked="" type="checkbox"/>	Auto Maintain
12	<input checked="" type="checkbox"/>	General Config
13	<input checked="" type="checkbox"/>	Tour、Spot Configuration
14	<input checked="" type="checkbox"/>	Output Adjust

OK Cancel

Figure 3.42 Add group

[Delete User]: delete the selected user, the user cannot delete the registry.

[Delete Group]: delete the selected user group.

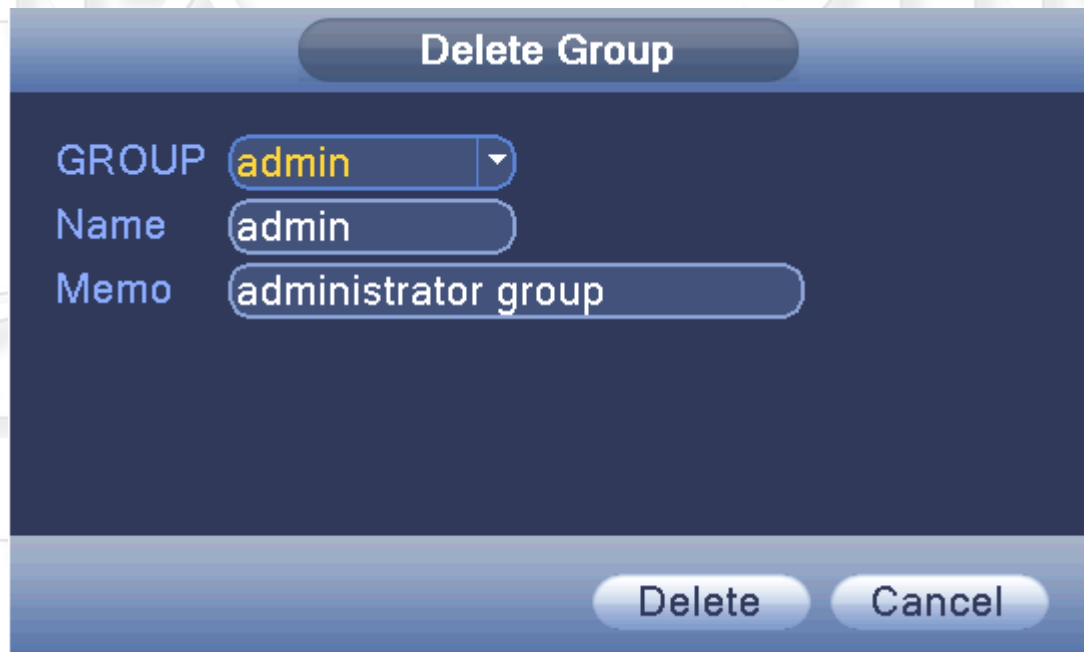
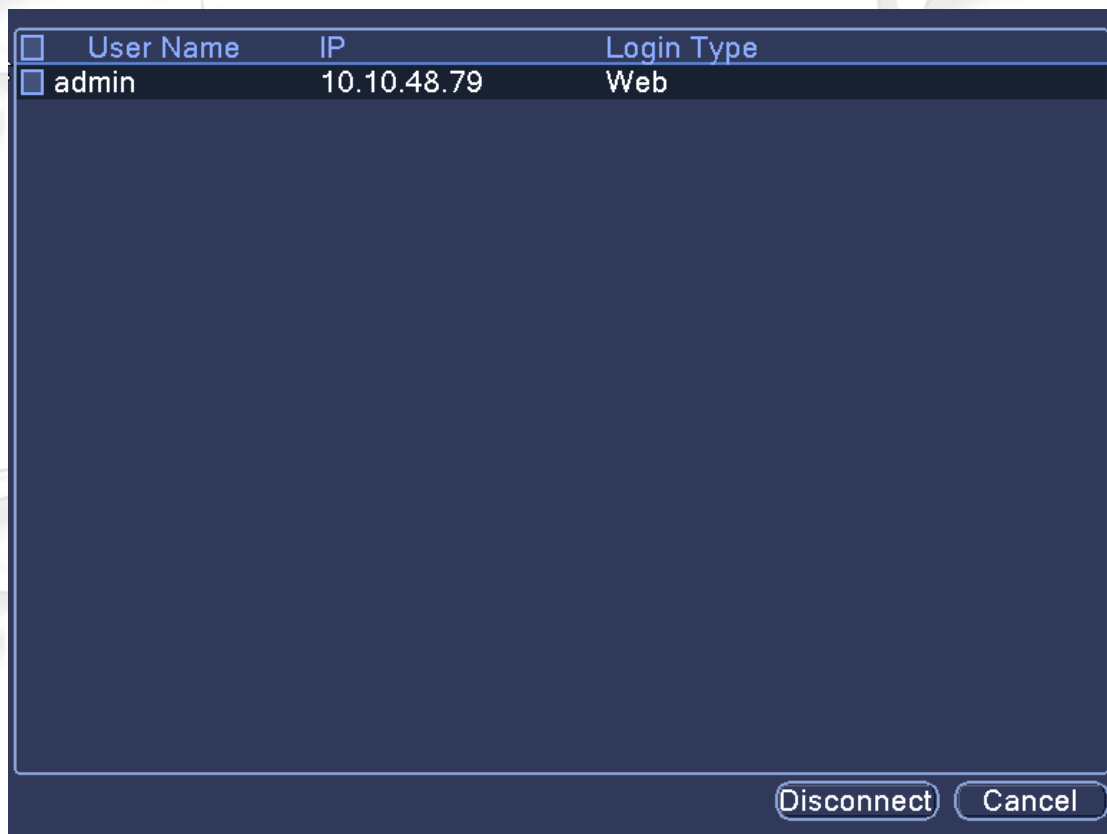


Figure 3.43 delete group

2.10.3 Online user

This menu section allows you to check the information of the network user that connected to the DVR device using a local device (PC/smart mobile device). You can also tick the box next to the user that is connected to the DVR device and disconnect them. When you disconnect them the user will be frozen after connection has been stopped, and will not log in until the device reboots.



<input type="checkbox"/>	User Name	IP	Login Type
<input checked="" type="checkbox"/>	admin	10.10.48.79	Web

Disconnect Cancel

Figure 3.44 Online user

2.10.4 TV adjust

Refer to chapter 2.9.7 Image Color

2.10.5 Auto maintain

The user can set the system to auto reboot and auto delete file at a given time and date.

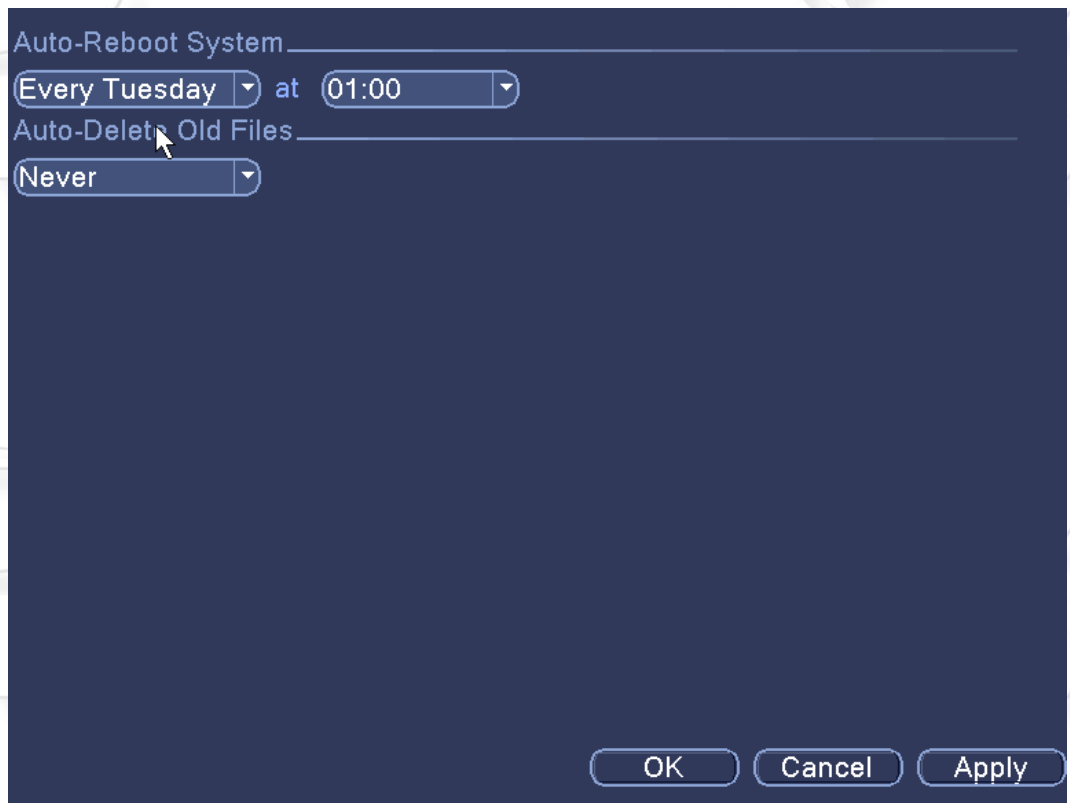


Figure 3.45 auto maintain

2.10.6 Restore

When the system is made to reset to its default setup you can choose from the list what parts to the system you want to reset to defaults.



Figure 3.46 Restore

2.10.7 Upgrade

Upgrade system firmware through this setup menu. You need to update your system via a connected USB storage device.



Figure 3.47 Upgrade

[Upgrade Position]: locate and provide firmware update file's directory path on the USB storage device.

[Upgrade file]: choose the firmware upgrade file from the directory path.

2.10.8 Device Info

Provide device's interface information, which includes audio in and alarm in/out.

Audio In Channels	<input type="text" value="0"/>
Alarm In Channels	<input type="text" value="0"/>
Alarm Out Channels	<input type="text" value="0"/>
Remote control type	<input type="text" value="General"/>
Maximum Playback large	<input type="text" value="4"/>
Default playback large	<input type="checkbox"/>
Enable RS232	<input checked="" type="checkbox"/>
Enable PTZ	<input checked="" type="checkbox"/>

Figure 3.48 device info

2.10.9 Import / Export

Users can export the log info and the configuration the file from device to a connected flash stick. You can also import the related configuration file from a USB flash/storage stick to settings.

Device Name

LOG _____

File Name

Set _____

File Name

File Name

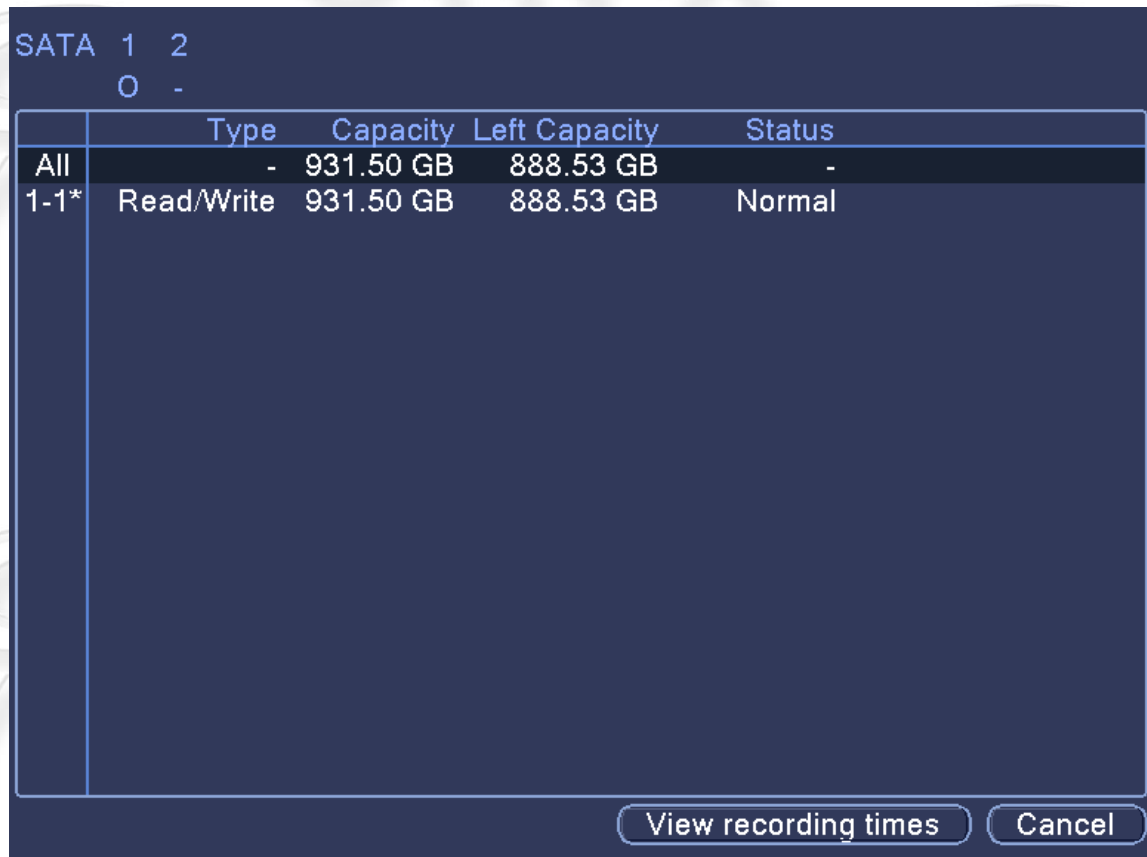
Figure 3.49 import/ export

2.11 System Info

This menu section displays the hard disk information, including HDD info, code stream statistic, log info and version info.

2.11.1 HDD info

This menu section displays the hard disk's current status, which includes; hard disk type, overall capacity, residual capacity, the recording time, etc.



	Type	Capacity	Left Capacity	Status
SATA 1	-	931.50 GB	888.53 GB	-
0	-	-	-	-
All	-	931.50 GB	888.53 GB	-
1-1*	Read/Write	931.50 GB	888.53 GB	Normal

View recording times Cancel

Figure 3.50 HDD info

Status Symbol key :

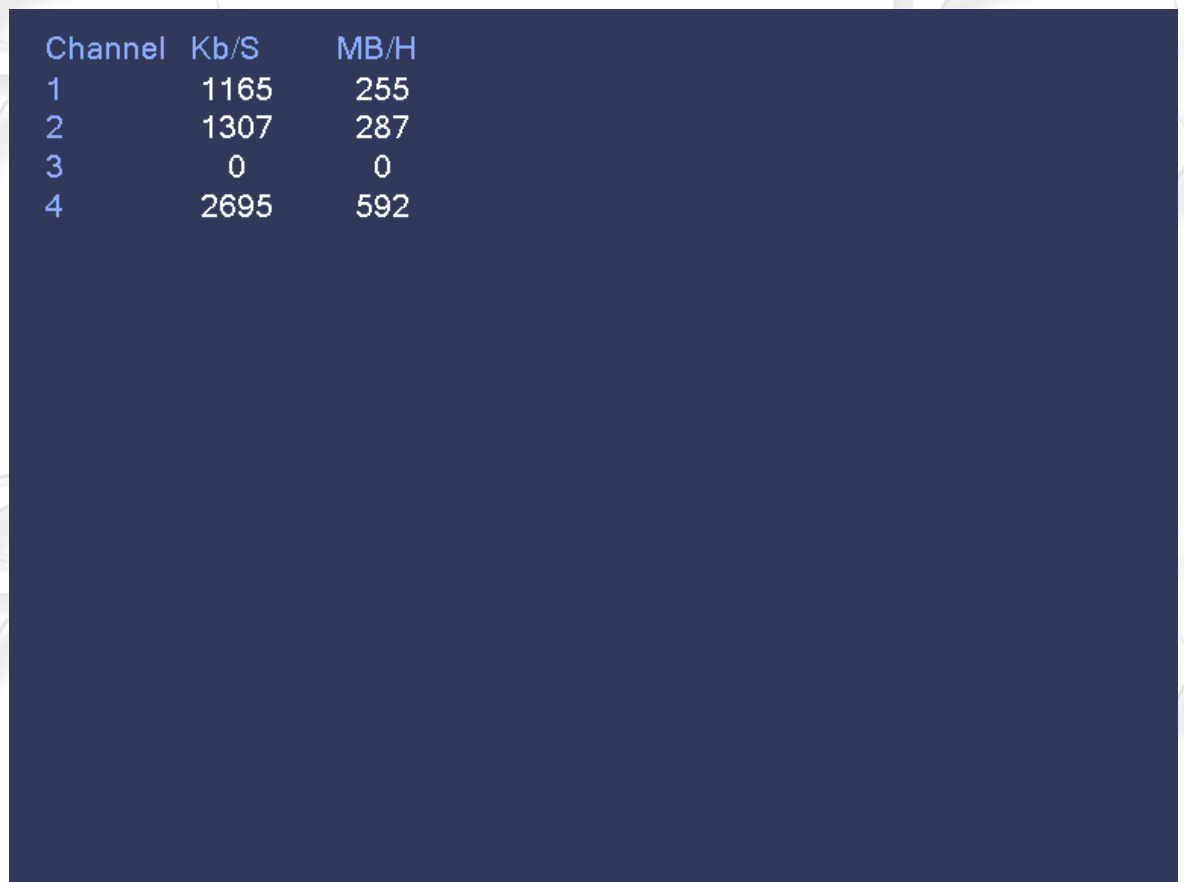
- : Hard disk is normal.
- X : Hard disk is not operating correctly/disconnected.
- : No hard disk connected. If the user needs to change the damaged hard disk, you must shut down the DVR before uninstalling all the damaged hard disk(s). **If you do not do turn the power off to the DVR before you replace the hard disk(s) you are in danger of harming yourself via an electric shock.**

*

: When this symbol appears next to the name of the hard disk it signifies that particular hard disk is the default storage unit. If the corresponding disk is damaged, the information will show “?”

2.11.2 BPS

This menu section displays the code stream (Kb/S) and hard disk capability (MB/H: Megabytes per hour) in real time. It displays the data as a wave sketch map.



Channel	Kb/S	MB/H
1	1165	255
2	1307	287
3	0	0
4	2695	592

Figure 3.51 BPS

2.11.3 LOG

Use this menu section to search through log information show in the main list.

Log information includes: system operation, configuration operation, data management, alarm affair, recording operation, user management, and file management. Set the time section (Start & End times and dates) to look for a particular log and click the ‘Search’ button. The log information will display as a list (one page is 128 items). Press Page up or Page down button to look up and down the list. Press the delete button to clear all the log information.

Type	All			
Start Time	2015 - 04 - 15 00 : 00 : 00			Pre Page
End Time	2015 - 04 - 16 00 : 00 : 00			Next Page
128	Log Time	Type	LOG	
1	2015-04-15 10:08:43	save system state	2015- 4-14 13:33:27	
2	2015-04-15 10:08:43	Log In	default<GUI>	
3	2015-04-15 10:09:06	Save Configuration	GUI	
4	2015-04-15 10:12:21	save system state	2015- 4-15 10:11:20	
5	2015-04-15 10:12:21	Log In	default<GUI>	
6	2015-04-15 10:12:56	Log Out	default<GUI>	
7	2015-04-15 10:12:56	Log In	admin<GUI>	
8	2015-04-15 10:13:37	Save Configuration	Net Common	
9	2015-04-15 10:13:37	Save Configuration	Net DNS	
10	2015-04-15 10:14:21	Log In	admin<Upgrade:10.10.48.79>	
11	2015-04-15 10:14:33	Log Out	admin<GUI>	
12	2015-04-15 10:14:33	Log In	default<GUI>	
13	2015-04-15 10:14:33	Upgrade	custom-x.cramfs.img	
14	2015-04-15 10:14:48	Upgrade	romfs-x.cramfs.img	
15	2015-04-15 10:15:08	Upgrade	user-x.cramfs.img	
16	2015-04-15 10:15:40	Upgrade	web-x.cramfs.img	
17	2015-04-15 10:15:48	Upgrade	log-x.cramfs.img	

Figure 3.52 LOG

2.11.4 Version

This menu section displays the basic information of the system, such as the hardware information, software version, issue date, serial number, and NAT status.

Delete Group

GROUP
admin

Name
admin

Memo
administrator group

Delete
Cancel

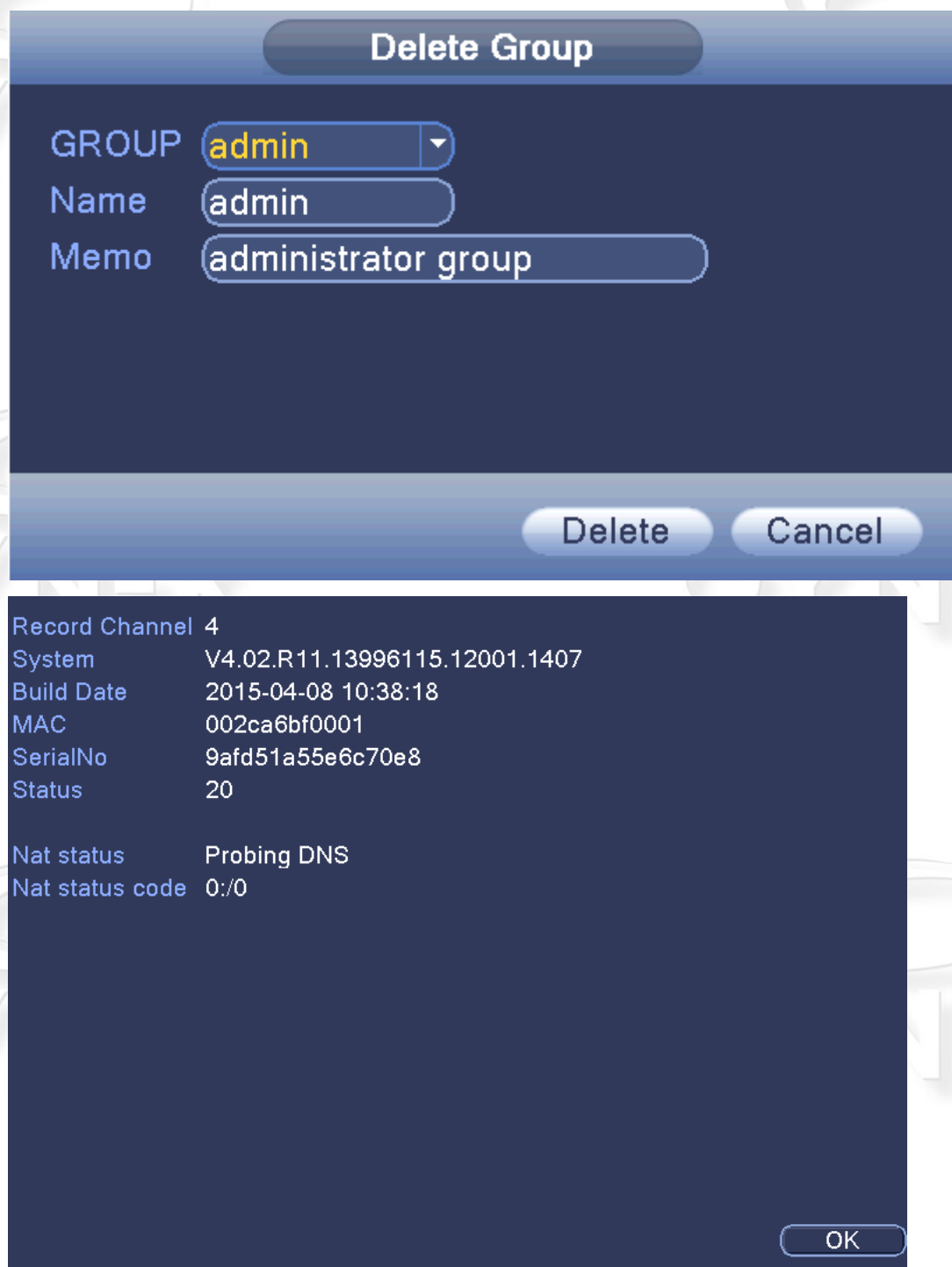


Figure 3.53 version

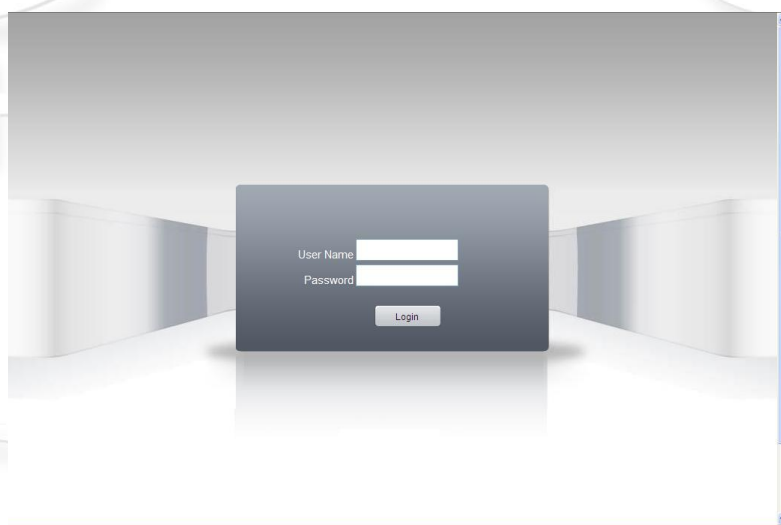
2.12 Shut down system

Refer to: Chapter 2.2 Turn off

3 WEB AND CLIENT

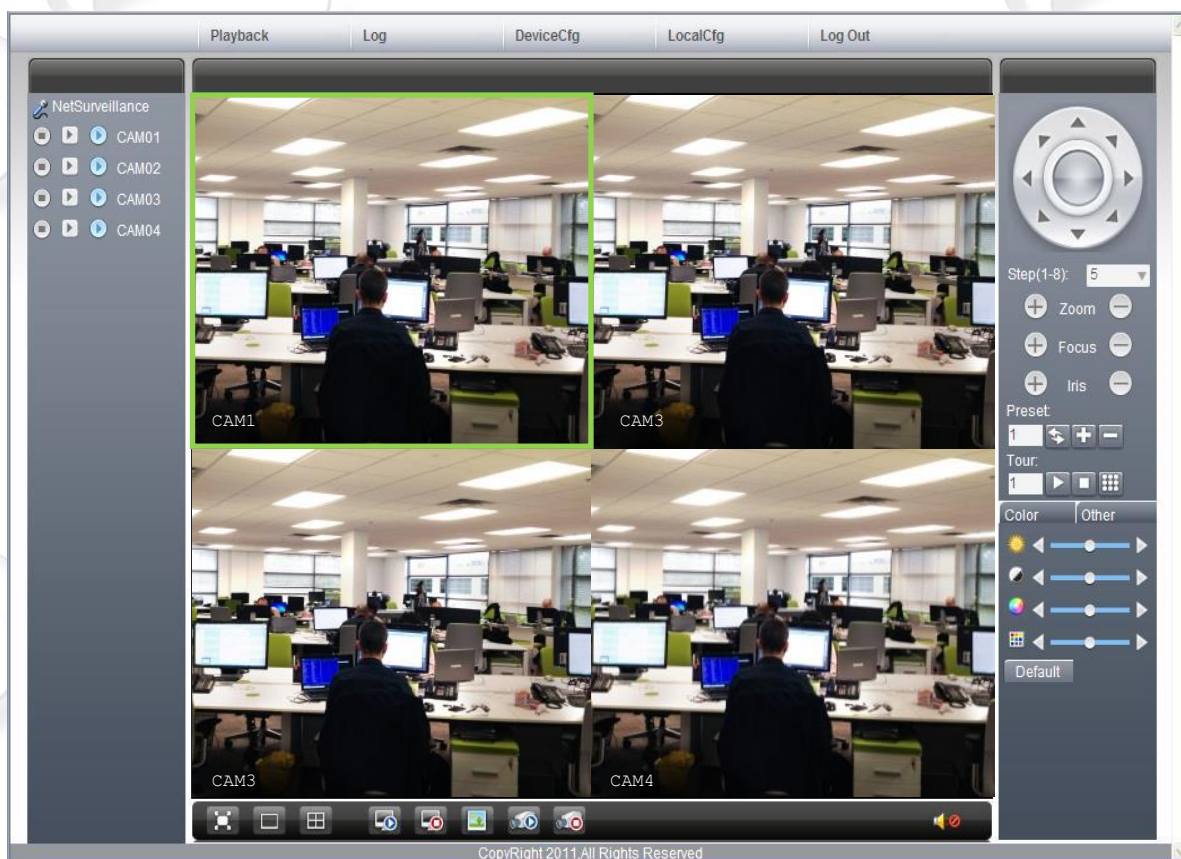
3.1 Web Operation

1. When connecting to a network, use the browser on your PC to login to the DVR to use the remote control functions. To do these please follow the steps below:
2. Install the ActiveX, file name is "IE Plug_V1.1.0.78.exe", which can also be located on the iDVR CD-ROM disc (follow the instructions on how to install it).
3. Connect with device, open browser, input the IP address of device, for example, the IP is 10.2.2.88, then input http://10.2.2.88 at the address column, will enter below page:



WEB login interface

4. Log in by inputting your user name and password. If you choose to link with all the videos after login, you need to choose the network stream. LAN networks use the main stream to transfer, whilst WAN networks use the extra stream to transfer. If network bit rate is poor, what may improve video transfer rate will be to choose an extra stream. The default administration login user name is 'admin', there is no password to enter (leave blank). User should create a password for the admin user profile after login. 'Pic 9' is the interface view you will encounter after successfully logging in.



WEB interface

3.2 Basic remote control operation

The control interfaces shown in Pic 9 have a number of functions that are described below:

- **Screen Split:** To choose the mode of preview
- **Playback:** Enter playback area, can support multi-channel playback at the same time.
- **Log:** Show with log information
- **Local config:** To set device alarm, enable to linkage function on the remote network client side.
- **Channel control:** Open the video, choose the video on the left video window and then choose channel on the right, double click it to open the first video, choose another one channel, double click to open the second video, use the same way to open other channels. If the channel did not change, system will closed previous video and open the new one you choose.

Note: User can choose the most appropriate image mode, when opening remote video control.

- **Close video:** at the video window, choose the video that you want to turn off, right click it and choose shut the window, also can choose shut all the windows to close all the video.

3.3 Remote config device

On the preview window, single click right mouse button and choose a device to configure. You will be given options to set parameters for the device, which will be synchronised to local network. You will be able to set options for: record, alarm, system, advanced, Info, etc.

4 TROUBLESHOOTING

If the problems are not listed, please contact your local CCTV service professional.

1. The DVR cannot boot up normally.

Possible reasons:

- A. The power supply is not correct.
- B. Bad power supply connection.
- C. Switch power supply is damaged.
- D. Firmware update failed to install correctly.
- E. The hard disk is damaged or the hard disk lines are broken.
- F. The front panel is damaged.
- G. The main board of the DVR is damaged.

2. The DVR reboots automatically or stops working after boot up a few minutes.

Possible reasons:

- A. The input voltage is not stable or too low.
- B. The hard disk is damaged or the hard disk lines are broken.
- C. The power of the switch power supply is low.
- D. Frontal video signal is not stable.
- E. Bad heat radiator or too much dust or bad running circumstance for the DVR.
- F. The hardware of the DVR is damaged.

3. System cannot detect hard disk.

Possible reasons:

- A. The hard disk power supply line is not connected.
- B. The cables of the hard disk are damaged.
- C. The hard disk is damaged.
- D. The SATA port of main board is damaged.

4. There are no video outputs in single channel, multiple channels and all channels.

Possible reasons:

- A.** The program is not matched. Please update the program.
- B.** The image brightness is all set to 0. Please restore the default setup.
- C.** There is no video input signal or the signal is too weak.
- D.** The channel protection or the screen protection is set.
- E.** The hardware of the DVR is damaged.

5. Real-time image problems such as the image color or the brightness distortion.

Possible reasons:

- A.** When using the BNC output, the option between the N mode or PAL mode is wrong and the image becomes black and white.
- B.** The DVR does not match the monitor impedance.
- C.** The video transmission distance is too far or the loss of the video transmission line is too large.
- D.** The color and brightness setting of the DVR is wrong.

6. I cannot find the video files in local playback mode.

Possible reasons:

- A.** The data line of the hard disk is damaged.
- B.** The hard disk is damaged.
- C.** Update the different program with the origin program files.
- D.** The video files to look up are covered.
- E.** The recording is not on.

7. The local video is not clear.

Possible reasons:

- A.** The image quality is too bad.
- B.** The reading program is wrong. Reboot up the DVR.

- C. The data line of the hard disk is damaged.
- D. The hard disk is damaged.
- E. The hardware of the DVR is damaged.

8. There is no audio signal in the surveillance window.

Possible reasons:

- A. It does not have an active tone arm.
- B. It does not have an active sound box.
- C. The audio lines are damaged.
- D. The hardware of the DVR is damaged.

9. There is audio signal in the surveillance window but no audio signal in the playback state.

Possible reasons:

- A. Setting issues: the audio option is not chosen.
- B. The according channel is not connected with the video.

10. The time is wrong.

Possible reasons:

- A. Setting is wrong..
- B. The battery has a bad connection or the voltage is too low.
- C. The oscillation is damaged.

11. The DVR cannot control the PTZ.

Possible reasons:

- A.** There is something wrong with the frontal PTZ.
- B.** The setting, connection or the installation of the PTZ decoder is not correct.
- C.** The connections are not correct.
- D.** The PTZ setting of the DVR is not correct.
- E.** The protocols of the PTZ decoder and the DVR are not matched.
- F.** The address of the PTZ decoder and the DVR are not matched.
- G.** When multiple decoders are connected, the far port of the PTZ decoder line A(B) must connect a 120 resistance to reduce the reflection otherwise the PTZ control is not stable.
- H.** The distance is too far.

12. The motion detect is not working,

Possible reasons:

- A.** The time range set is not correct.
- B.** The motion detect area set is not correct.
- C.** The sensitivity is too low.
- D.** Limited by some hardware edition.

13.I cannot login via web or CMS.

Possible reasons:

- A.** The system is Windows 98 or ME. We recommend updating to windows 2000 SP4 or higher Version or installing the software for low edition.
- B.** ActiveX is not installed or blocked by web browser.
- C.** The version DX display dirver is not DX8.1 or later. Update the display card driver.
- D.** Network connection failure.
- E.** Network setting issues.
- F.** Invalid password or user name.
- G.** The CMS is not matched the DVR program version.

14.The image is not clear or there is no image in network preview state or video file playback state.

Possible reasons:

- A.** Network is not stable.
- B.** The user machine is resource limited.
- C.** Choose the play-in-team mode in the network setup of DVR.
- D.** The region shelter or channel protection is set.
- E.** The user has no surveillance purview.
- F.** The real-time image of the hard disk recording machine itself is not clear.

15.Network connection is not stable.

Possible reasons:

- A.** Network is not stable.
- B.** IP address is conflicted.
- C.** MAC address is conflicted.
- D.** The net card of the DVR is bad.

16. There is something wrong with the USB backup or writing a CD.

Possible reasons:

- A. The rewritable machine and the hard disk are shared the same data lines.
- B. There is too much data to backup. Please stop recording and backup on another device.
- C. The backup equipment is not compatible.
- D. The backup equipment is damaged.

17. The keyboard cannot control the DVR.

Possible reasons:

- A. The serial port of the DVR is not set correctly.
- B. The address is not correct.
- C. When multiple transformers are connected, the power supply is not large enough. Please give each transformer individual power supply.
- D. The distance is too far.

18. Alarm cannot be recessional.

Possible reasons:

- A. The settings for the alarm are not correct.
- B. The alarm output is turned on manually.
- C. The input machine is damaged or the connections are not correct.
- D. There are some problems for specific program edition, Please update the program.

19. Alarm is not working.

Possible reasons:

- A. The settings for the alarm are not correct.
- B. The connection of the alarm is not correct.
- C. The alarm input signal is not correct.
- D. Alarm is connected with two synchronous loops.

20. The remote controller is not working,

Possible reasons:

- A.** The remote control address is incorrect.
- B.** The remote control distance is too far or the angle is too large.
- C.** The battery has fully discharged.
- D.** The remote controller or the front panel of the recording machine is damaged.

21. The storage time is not enough.

Possible reasons:

- A.** Front Vidicon quality is bad. The lens is too dirty. The Vidicon is in a poor backlighting installation location.
- B.** The hard disk capability is not enough.
- C.** The hard disk is damaged.

22. The downloading files cannot play.

Possible reasons:

- A.** There is no media player.
- B.** There is no DX8.1 software or higher edition.
- C.** There is no DivX503Bundle.exe file to play AVI video files.
- D.** The DivX503Bundle.exe and ffdshow-2004 1012 .exe files must be installed in the windows XP system.

23. Cannot see the preview picture the digital channel

Possible reasons:

- A.** Did not add device
- B.** The device of related channel was not enabled.
- C.** The device of related channel was not selected.
- D.** The selected device did not connect to video sources
- E.** The channel title of selected remote device does not exist.
- F.** Stream for remote channel was set by extra stream.
- G.** User name & password not matched
- H.** Directly inputted the IP address or port No. incorrectly when adding device.
- I.** The resolution of added device is too large to display by the monitor.

24. Click “search” why not search out any of the device.

Possible reasons:

- A.** There is no other device existing within the Local area network
- B.** The subnet mask setting is incorrectly in the Network settings.

25. The snapshot at alarm function was enable, why not catch picture

Possible reasons:

- A.** HDD manage without partition for snapshot.
- B.** Partition for snapshot is 0
- C.** The snapshot function is not enabled on record-> storage of related channel.

26. The time shows on digital channel is not the same as local side:

- A.** Enable the time synchronise function of the digital channel.

27. Cannot see preview picture of analog channel

Possible reasons:

- A.** The camera did not connect to video interface
- B.** The device did not connect to video source
- C.** Video source is broken.

28. Picture will be frozen when multi-connection and shift devices.

- A.** Picture come out from digital channel need few seconds, shift device means to show new picture, so it needs several seconds to buffer.

NITRO MOBILE APP

To be able to remotely access your DVR from your mobile smart device please download one of our OYN-X Nitro apps from either the Google Play or iTunes stores.



Scan the QR codes below with you mobile smart device to be directed straight to the app download source:



**GOOGLE PLAY APP
DOWNLOAD**



**iTUNES APP
DOWNLOAD**



To remotely access your DVR via a PC or computer workstation, connected to the internet, please scan the QR code below and register to our P2P website:

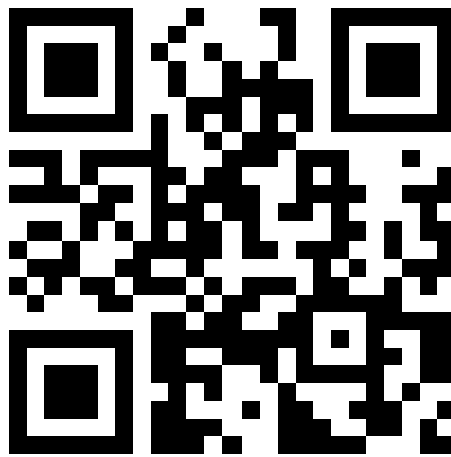
www.ahd-p2p.co.uk



For more information about our DVRs and available cameras & accessories, please visit our website:

www.adata.co.uk

Alternatively scan this QR code with your smart phone to be directed instantly to our website.



Download our mobile apps to remotely operate your DVR on the move.